

June 2011

PF 225 Phase II

Draft Drainage Report

Fence Segments O1, O2, O3

**2-D Hydraulic Analysis of the
Rio Grande Floodplain**

Starr County and Hidalgo County, TX

Contract No. (b) (2)

Prepared for

**Department of the Army
Engineering & Construction Support Office
United States Army Corps of Engineers
Fort Worth, TX**

Prepared by:



Michael Baker Jr., Inc.
Phoenix, Arizona

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Prepared By

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June 2011

PROJECT NO. 112319

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1.0 INTRODUCTION AND PURPOSE

This drainage report is prepared for the United States Army Corps of Engineers for a design/bid/build project for PF-225 fence segments RGV-RGC-1 (project O-1), RGV-RGC-2 (project O-2), and RGV-MCS-1 (project O-3) along the International Boundary between Texas and Mexico. Each fence segment is located along the Rio Grande where no levees exist. A previous drainage report on the Rio Grande floodplain impacts resulting from these proposed fence segments and based on a HEC-RAS hydraulic analysis was submitted in December 2009.

The purpose of the subject study was to improve upon the December 2009 study by conducting a two-dimensional hydraulic analysis for the three fence segments. This study includes the latest preferred fence alignments of the U.S. Border Patrol (USBP) which are unchanged from the December 2009 analysis. This report presents a detailed description of the Rio Grande floodplain analysis that was conducted and summarizes the hydraulic impacts resulting from the placement of the proposed O-1, O-2, and O-3 border fence segments.

2.0 LOCATION

The proposed border fence segments are located in the southern most part of Texas. Fence segment O-1 is located approximately 50 miles west of McAllen near the town of Roma. Fence segment O-2 is located approximately 15 miles downstream of O-1. Fence segment O-2 lies south of Rio Grande City. Fence segments O-1 and O-2 are located in southern Starr County, Texas within the Rio Grande floodplain. The Rio Grande serves as the boundary with Mexico to the south.

Fence segment O-3 is located approximately 25 miles west of McAllen and south of the town of Los Ebanos. Fence segment O-3 is located in southwestern Hidalgo County, Texas and lies within the Rio Grande floodplain. This segment is approximately 25 miles downstream of fence segment O-2.

Figure 1: Vicinity Map in **Appendix A** shows the three fence segments in relation to the state of Texas. The lengths and locations, specifically the latitudes and longitudes, of the proposed fence segments are as follows.

Fence segment O-1 spans the length from Fronton Island to Roma-Los Saenz and is approximately 5.26 miles in length. This project falls within the following limits:

Western End: Latitude: 26° 24' 39"N Longitude: 99° 2' 43"W

Eastern End: Latitude: 26° 23' 39.61"N Longitude: 98° 59' 54.52" W

Fence segment O-2 spans the length from upstream of Rio Grande City to upstream of El Refugio and is approximately 7.30 miles in length. This project falls within the following limits:

Western End: Latitude: 26° 22' 19"N Longitude: 98° 50' 53.2"W

Eastern End: Latitude: 26° 19' 54.14"N Longitude: 98° 45' 27.25" W

Fence segment O-3 spans upstream and downstream of Los Ebanos and is approximately 1.85 miles in length. This project falls within the following limits:

Western End: [REDACTED] (b) (7) [REDACTED] Longitude (b) (7) [REDACTED]
 Eastern End: Latitude (b) (7) [REDACTED] Longitude: (b) (7) [REDACTED]

3.0 SITE DESCRIPTION

The proposed fence segments are on the edge or within the Rio Grande floodplain. Along the river within Starr County, brown to red loams cover cracking clayey soils. Temperatures range from an average minimum of 44°F in January and to an average maximum of 99°F in July. The average rainfall is 22 inches a year.

Hidalgo County comprises 1, 596 sq. miles of the Rio Grande delta. The southern part of the County has moderately deep to deep loamy surfaces over clayey soils. Along the Rio Grande, brown to red clays occur. The climate is subtropical and sub humid. Temperatures range from an average low of 47°F in January to an average high of 96°F in July. Rainfall averages 23 inches a year.

4.0 FEMA FLOODPLAIN CLASSIFICATION

The FEMA Flood Insurance Rate Map (FIRM) for Segment O-1 lies in the panel for the “City of Roma Los Saenz, Texas in Starr County” (Community No. 480577; FIRM panel 48427C0520C with effective date of April 19, 2010). The Effective FIRM reflects no Special Flood Hazard Areas (SFHA) within the City of Roma; however, Zone A exists upstream and downstream (east and west) of the City of Roma. Zone A is defined as “No base flood elevations determined”.

The current FEMA FIRM panel numbers for Segment O-2 are 48427C0680C and 48427C0685C with effective date of April 19, 2010. They show Segment O-2 to be within a Special Flood Hazard Zone A.

The current FEMA FIRM panel number for Segment O-3 is 480334 0375B with effective date of January 2, 1981. It shows Segment O-3 to be within a Special Flood Hazard Zone A-23. FEMA defines Zone A-23 as an area subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods. Base Flood Elevations (BFEs) are shown in this panel.

5.0 HYDROLOGIC ANALYSIS

No hydrologic analysis was performed as part of this report. The Rio Grande design discharge of 240,000 cfs recommended by the United States International Boundary and Water Commission (USIBWC) was adopted for the hydraulic analysis of the fence locations. This discharge value is based on the historic peak flooding from the September 1988 flood (Hurricane Gilbert) at Rio Grande City, located downstream of the Rio San Juan and Rio Grande confluence.

Research was performed as part of the December 2009 drainage report to determine whether FEMA had determined a 100-year peak flow in the area. Although Segment O3 is classified as a Special Flood Hazard Zone A-23, FEMA possesses no detailed modeling for the area. Replies to our requests to Zimmerman Associates, Inc., FEMA's Engineering Library verifying this were provided in the December 2009 report. As a result, USIBWC's flow of 240,000 cfs was used for the analyses for O1, O2, and O3.

6.0 FLO-2D HYDRAULIC MODEL DEVELOPMENT

A two-dimensional hydraulic modeling methodology was developed based on the FLO-2D software (version 2009). FLO-2D is a physically based model that has the capability to route rainfall-runoff and flood hydrographs over unconfined flow surfaces or in channels. Flood routing in two dimensions is accomplished by solving the partial differential equations of continuity and momentum. The methodology was discussed at the USIBWC El Paso office on February 23, 2011. Minutes of this meeting are included in **Appendix C**. The methodology was modified to include USIBWC preferences and is included in **Appendix C**.

LIDAR topographic data that was obtained from the USIBWC and used for the December 2009 drainage study was also used to develop the two-dimensional grid surface. The LIDAR data was based on the North American Vertical Datum (NAVD) of 1988.

The proposed fence alignments for fence segments O-1, O-2 and O-3 were provided by the USIBWC on September 15, 2009 during a meeting in Edinburg, Texas. These were the same alignments used in the December 2009 drainage study.

An existing condition FLO-2D model was first developed for an area bounding a proposed fence segment. Criteria used for developing the FLO-2D model included a 500-foot x 500-foot grid, an inflow hydrograph with discharge increasing from 0 cfs to 240,000 cfs in 12 hours and staying constant for the next 12 hours, and undeveloped and developed condition Manning's "n" values of 0.07 and 0.04, respectively. Manning's "n" values were selected referring to the aerial image background. The inflow hydrograph was to be steeper/flatter and/or run for a longer duration if steady state conditions were not achieved. Other features included the channel and major roads that were input as levees. The model included outflow elements aligned along the eastern boundary. Floodplain cross-sections were placed on both the US and the Mexico side floodplains and oriented to be perpendicular to predominant flow paths. The full set of criteria is provided in the hydraulic modeling methodology (**Appendix C**). The model was run and results examined for volume conservation and instabilities. Model improvements to address any

problems related to volume conservation and instabilities followed procedures listed in the FLO-2D manuals.

The proposed condition FLO-2D model was then developed by including hydraulic structures in the grid elements containing the proposed fence. This was done using the 'Tools', 'Hydraulic Structures' option in the GDS module within FLO-2D. Rating curves for these grid elements were developed using FlowMaster. A debris blockage of 10% was adopted where the fence is aligned parallel to the flow and 25% at locations where the fence is aligned perpendicular to the flow for the development of these rating curves.

Once the existing and proposed condition models were finalized for a fence segment, hydraulic impacts were analyzed to check if they were within USIBWC thresholds. The USIBWC criteria and limitations were no more than a flow deflection of +5% and a water surface elevation increase of not more than 3" in urban areas and 6" in rural areas. The increase in water surface elevation was calculated as proposed condition minus the existing condition water surface elevation for each grid element. The percent deflection at a floodplain cross-section was calculated as follows. The difference of proposed minus existing condition discharges for the final simulation time was calculated for the floodplain cross section and half the channel element. The deflection was then calculated as a percent of the existing condition discharge.

7.0 RESULTS AND DISCUSSION

Results from the existing conditions and proposed conditions models for fence segments O-1, O-2 and O-3 are presented below.

7.1 Fence Segment O-1

The inflow hydrograph was introduced in grid element 1013 at the western end. Outflow elements were located only along the eastern edge of the flow domain.

Model runs were made and results studied for volume conservation and instability issues. Model results were improved using procedures documented in the FLO-2D manuals. Steady state conditions were reached within the 24-hour period.

Detailed FLO-2D outputs of the existing and proposed condition models, and hydraulic impact tables are included in the DVD in **Appendix D**.

Existing Condition Model

The existing condition model consists of 2256 grid elements and 17 floodplain cross-sections. **Exhibit 1A** in **Appendix A** shows the computational domain as the FLO-2D grid on

the aerial image. Also shown are the proposed fence alignment and the floodplain cross-sections.

Volume conservation results as shown in the BASE.OUT file (DVD in **Appendix D**) indicated a total inflow of 357030.20 acre-feet. Total outflow and storage was 357029.97 acre-feet. The difference is -0.23 acre-foot or -0.000064%.

Proposed Condition Model

The proposed fence was input into the existing condition model by including a hydraulic structure in each grid element containing the fence. Rating curves were obtained from FlowMaster analysis (DVD in **Appendix D**).

Volume conservation results as shown in the BASE.OUT file (DVD in **Appendix D**) indicated a total inflow of 357029.72 acre-feet. Total outflow and storage was 357029.88 acre-feet. The difference is 0.16 acre-foot or 0.000045%.

Deflection calculations showed maximum deflections of 3.72% and 3.47% in the US and Mexico floodplains, respectively.

Exhibits

Exhibit 1B in **Appendix A** shows the proposed condition water surface elevations. These values are also shown in **Table 1A** in **Appendix B**.

Exhibit 1C in **Appendix A** shows the increase in water depth (proposed – existing) for each grid element. These values are also shown in **Table 1A** in **Appendix B**. Results show that the water surface elevation increases were within the maximum threshold in all the grid elements.

Exhibit 1D and **Exhibit 1E** in **Appendix A** shows the flow direction of the maximum resolved discharge for each grid element for the existing and proposed conditions, respectively.

Table 1B in **Appendix B** shows the percent flow deflections for each floodplain cross-section. Results show that the percent deflections were within the maximum threshold in all the floodplain cross-sections.

7.2 Fence Segment O-2

The inflow hydrograph was introduced in grid element 69 at the western end. Outflow elements were located only along the eastern edge of the flow domain.

Model runs were made and results studied for volume conservation and instability issues. Model results were improved using procedures documented in the FLO-2D manuals. Steady state conditions were reached within the 24-hour period.

Detailed FLO-2D outputs of the existing and proposed condition models, and hydraulic impact tables are included in the DVD in **Appendix D**.

Existing Condition Model

The existing condition model consists of 3363 grid elements and 20 floodplain cross-sections. **Exhibit 2A** in **Appendix A** shows the computational domain as the FLO-2D grid on the aerial image. Also shown are the proposed fence alignment and the floodplain cross-sections.

Volume conservation results as shown in the BASE.OUT file (DVD in **Appendix D**) indicated a total inflow of 476039.98 acre-feet. Total outflow and storage was 476040.06 acre-feet. The difference is 0.08 acre-foot or 0.000017%.

Proposed Condition Model

The proposed fence was input into the existing condition model by including a hydraulic structure in each grid element containing the fence. Rating curves were obtained from FlowMaster analysis (DVD in **Appendix D**).

Volume conservation results as shown in the BASE.OUT file (DVD in **Appendix D**) indicated a total inflow of 476040.80 acre-feet. Total outflow and storage was 476040.88 acre-feet. The difference is 0.08 acre-foot or 0.000017%.

Deflection calculations showed maximum deflections of 0.62% and 0.96% in the US and Mexico floodplains, respectively.

Exhibits

Exhibit 2B in **Appendix A** shows the proposed condition water surface elevations. These values are also shown in **Table 2A** in **Appendix B**.

Exhibit 2C in **Appendix A** shows the increase in water depth (proposed – existing) for each grid element. These values are also shown in **Table 2A** in **Appendix B**. Results show that the water surface elevation increases were within the maximum threshold in all the grid elements.

Exhibit 2D and **Exhibit 2E** in **Appendix A** shows the flow direction of the maximum resolved discharge for each grid element for the existing and proposed conditions, respectively.

Table 2B in **Appendix B** shows the percent flow deflections for each floodplain cross-section. Results show that the percent deflections were within the maximum threshold in all the floodplain cross-sections.

7.3 Fence Segment O-3

The inflow hydrograph was introduced in grid element 86 at the western end. Outflow elements were located only along the eastern edge of the flow domain.

Model runs were made and results studied for volume conservation and instability issues. Model results were improved using procedures documented in the FLO-2D manuals. Steady state conditions were reached within the 24-hour period.

Detailed FLO-2D outputs of the existing and proposed condition models, and hydraulic impact tables are included in the DVD in **Appendix D**.

Existing Condition Model

The existing condition model consists of 1823 grid elements and 17 floodplain cross-sections. **Exhibit 3A** in **Appendix A** shows the computational domain as the FLO-2D grid on the aerial image. Also shown are the proposed fence alignment and the floodplain cross-sections.

Volume conservation results as shown in the BASE.OUT file (DVD in **Appendix D**) indicated a total inflow of 357038.05 acre-feet. Total outflow and storage was 357038.03 acre-feet. The difference is -0.02 acre-foot or -0.000006%.

Proposed Condition Model

The proposed fence was input into the existing condition model by including a hydraulic structure in each grid element containing the fence. Rating curves were obtained from FlowMaster analysis (DVD in **Appendix D**).

Volume conservation results as shown in the BASE.OUT file (DVD in **Appendix D**) indicated a total inflow of 357036.64 acre-feet. Total outflow and storage was 357036.62 acre-feet. The difference is -0.02 acre-foot or -0.000006%.

Deflection calculations showed maximum deflections of 0.66% and 0.72% in the US and Mexico floodplains, respectively.

Exhibits

Exhibit 3B in **Appendix A** shows the proposed condition water surface elevations. These values are also shown in **Table 3A** in **Appendix B**.

Exhibit 3C in **Appendix A** shows the increase in water depth (proposed – existing) for each grid element. These values are also shown in **Table 3A** in **Appendix B**. Results show that the water surface elevation increases were within the maximum threshold in all the grid elements.

Exhibit 3D and **Exhibit 3E** in **Appendix A** shows the flow direction of the maximum resolved discharge for each grid element for the existing and proposed conditions, respectively.

Table 3B in **Appendix B** shows the percent flow deflections for each floodplain cross-section. Results show that the percent deflections were within the maximum threshold in all the floodplain cross-sections.

8.0 CONCLUSIONS

Detailed FLO-2D models were developed for each of the three proposed fence segments O-1, O-2 and O-3 to study the hydraulic impacts resulting from these fence segments. This two-dimensional hydraulic analysis provided water surface elevations, discharges and related hydraulic parameters on a grid element basis throughout the flow domain.

Hydraulic impacts in terms of increased water surface elevations and percent flow deflections calculated from the FLO-2D modeling results indicated that maximum thresholds for these criteria were met for all fence segments. In summary, hydraulic modeling indicated that the proposed fence segments O-1, O-2 and O-3 should result in minimum hydraulic impacts to the Rio Grande on the Mexico side.

9.0 REFERENCES

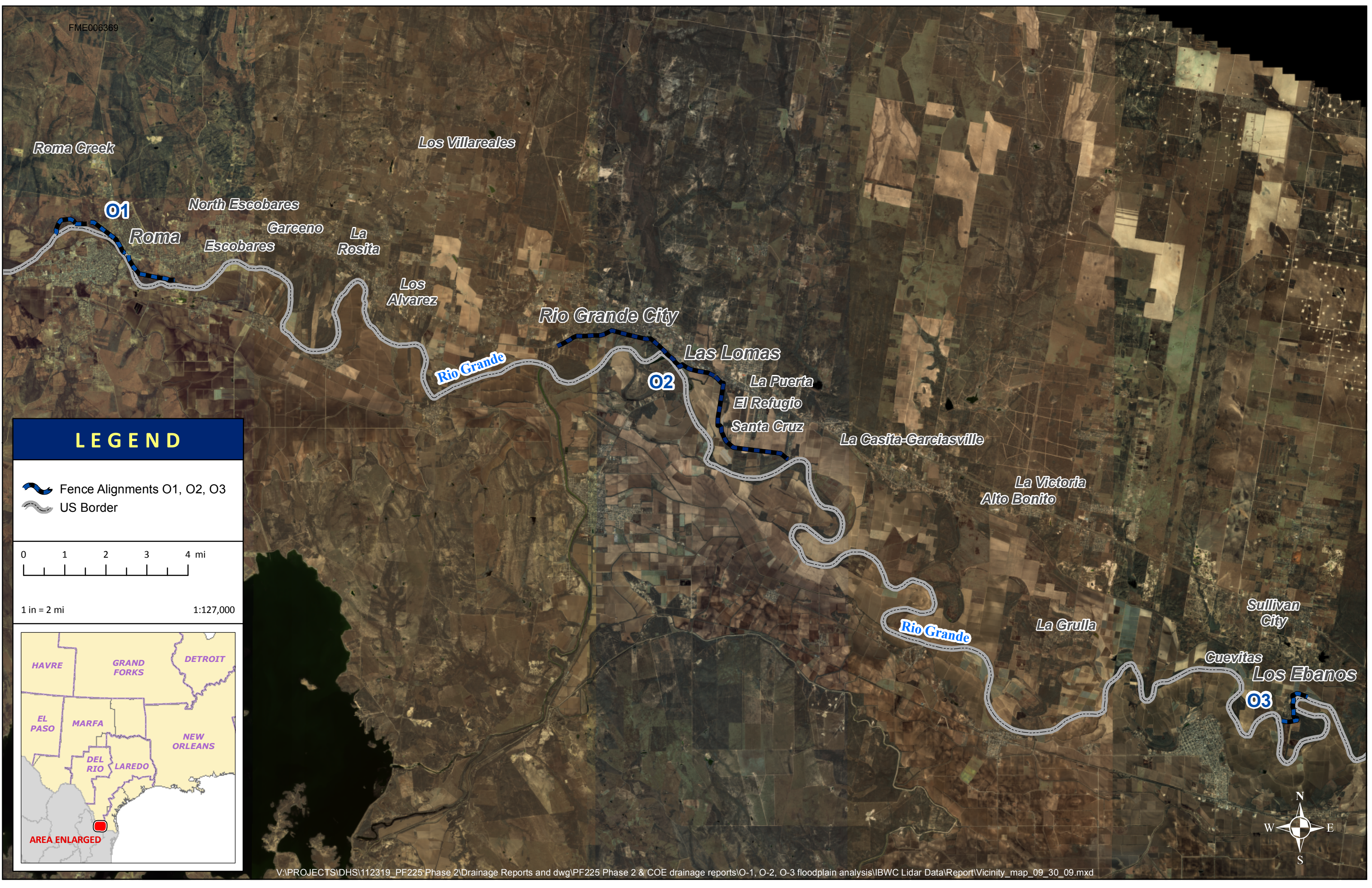
- 1) Construction of Primary Border Fence Projects O-1, O-2 and O-3, Rio Grande Floodplain Analysis Drainage Report, prepared by Michael Baker Jr., Inc. for the U.S. Army Corps of Engineers, Fort Worth District, Contract No. (b) (2). March 2008.
- 2) FLO-2D Data Input Manual, Version 2009.06, FLO-2D Software, Inc., 2009.
- 3) FLO-2D Grid Developer System (GDS) Manual, Version 2009, FLO-2D Software, Inc., 2009.
- 4) FLO-2D Mapper Manual, Version 2009, FLO-2D Software, Inc., 2009.
- 5) FLO-2D Reference Manual, Version 2009, FLO-2D Software, Inc., 2009.
- 6) FlowMaster, Version 8i, Bentley Systems, Inc., 2009.
- 7) *Hydraulic Engineering Center River Analysis System (HEC-RAS)* Version 4.0.0, US Army Corps of Engineers March 2008.
- 8) The Handbook of Texas Online, A Digital Gateway to Texas History. Starr County. <http://www.tshaonline.org/handbook/online/articles/SS/hcs13.html>

- 9) The Handbook of Texas Online, A Digital Gateway to Texas History. Hidalgo County.
<http://www.tshaonline.org/handbook/online/articles/HH/hch14.html>
- 10) PF 225 Phase II Final Drainage Report, Fence Segments O1, O2, O3, Rio Grande Floodplain Analysis, Starr County and Hidalgo County, TX, Contract No. (b) (2) prepared by Michael Baker Jr., Inc. for the U. S. Army Corps of Engineers, Fort Worth District, Texas, December 2009.





APPENDIX A

FIGURES AND EXHIBITS



LEGEND

-  Fence Alignments O1, O2, O3
-  US Border

0 1 2 3 4 mi

1 in = 2 mi 1:127,000

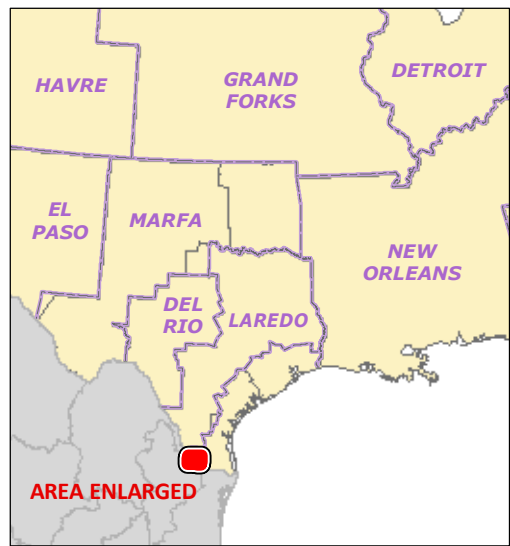



Exhibit 1A: Rio Grande Pedestrian Fence Segment O1 (Starr County Texas) Two-Dimensional Modeling Features

FLO-2D Grid





2,500 1,250 0 2,500 Feet

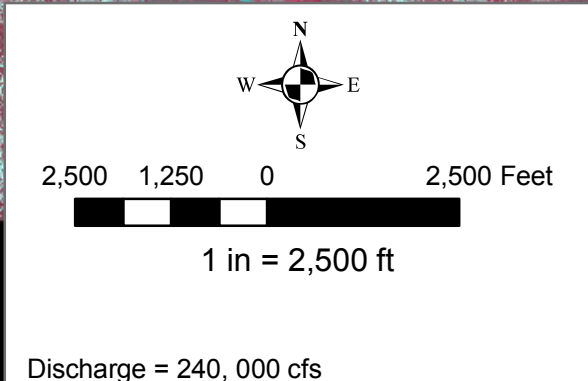
1 in = 2,500 ft

Discharge = 240, 000 cfs

Legend

 O1 Cross Sections

 O1 Proposed Fence



V:\PROJECTS\DH5112319_P\PF225\Phase 2\Drainage Reports and dwg\PF225\Phase 2 & COE drainage reports\0-1, 0-2, 0-3 floodplain analysis\FLO-2D\01GIS\MXDs\01_Proposed_L_Water_Surfaces.mxd

Exhibit 1C: Rio Grande Pedestrian Fence Segment O1 (Starr County Texas) Increase in Water Depth (Proposed – Existing)

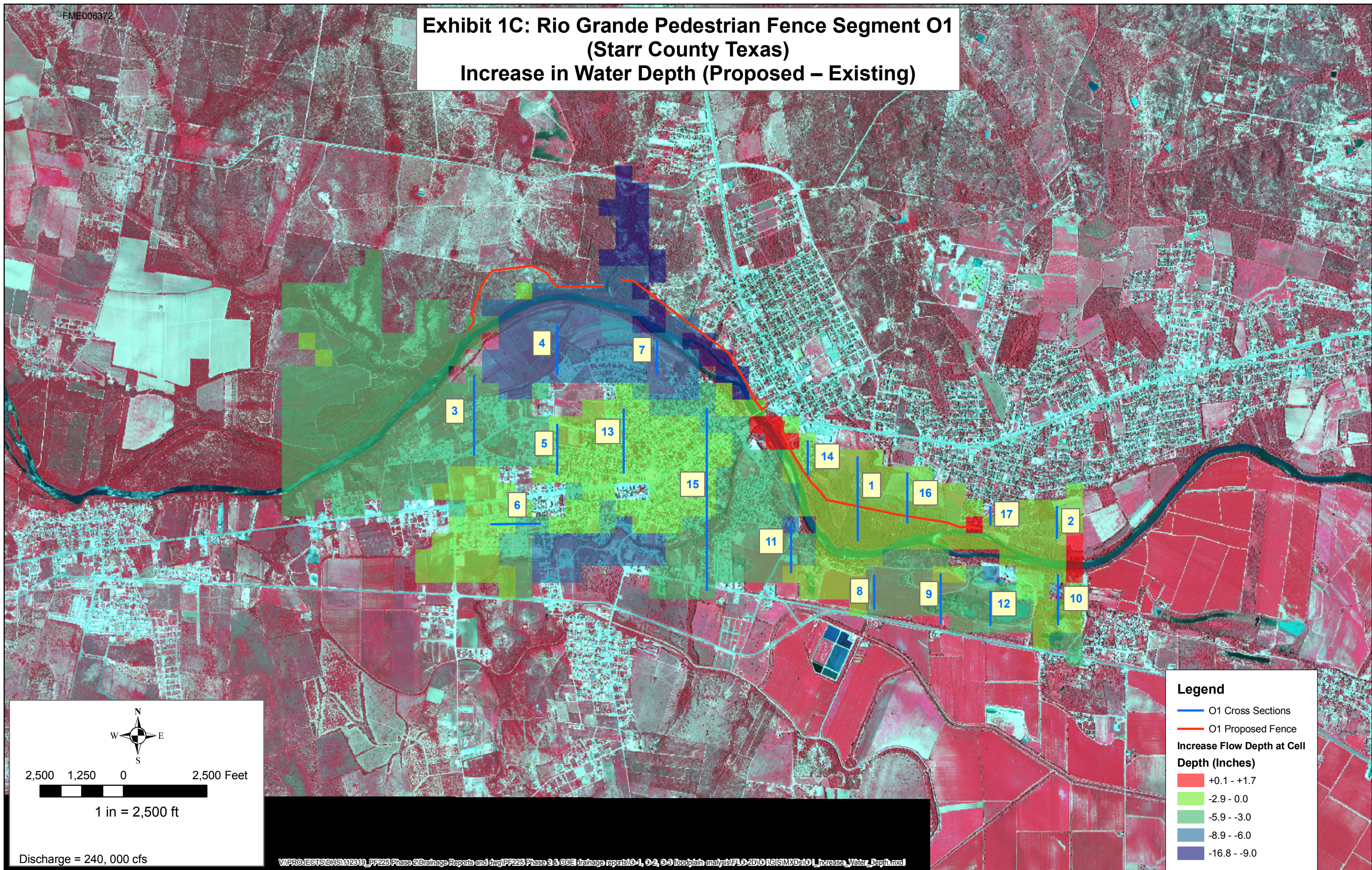


Exhibit 1D: Rio Grande Pedestrian Fence Segment 01 (Starr County Texas) Direction of Maximum Discharge (Existing Condition)

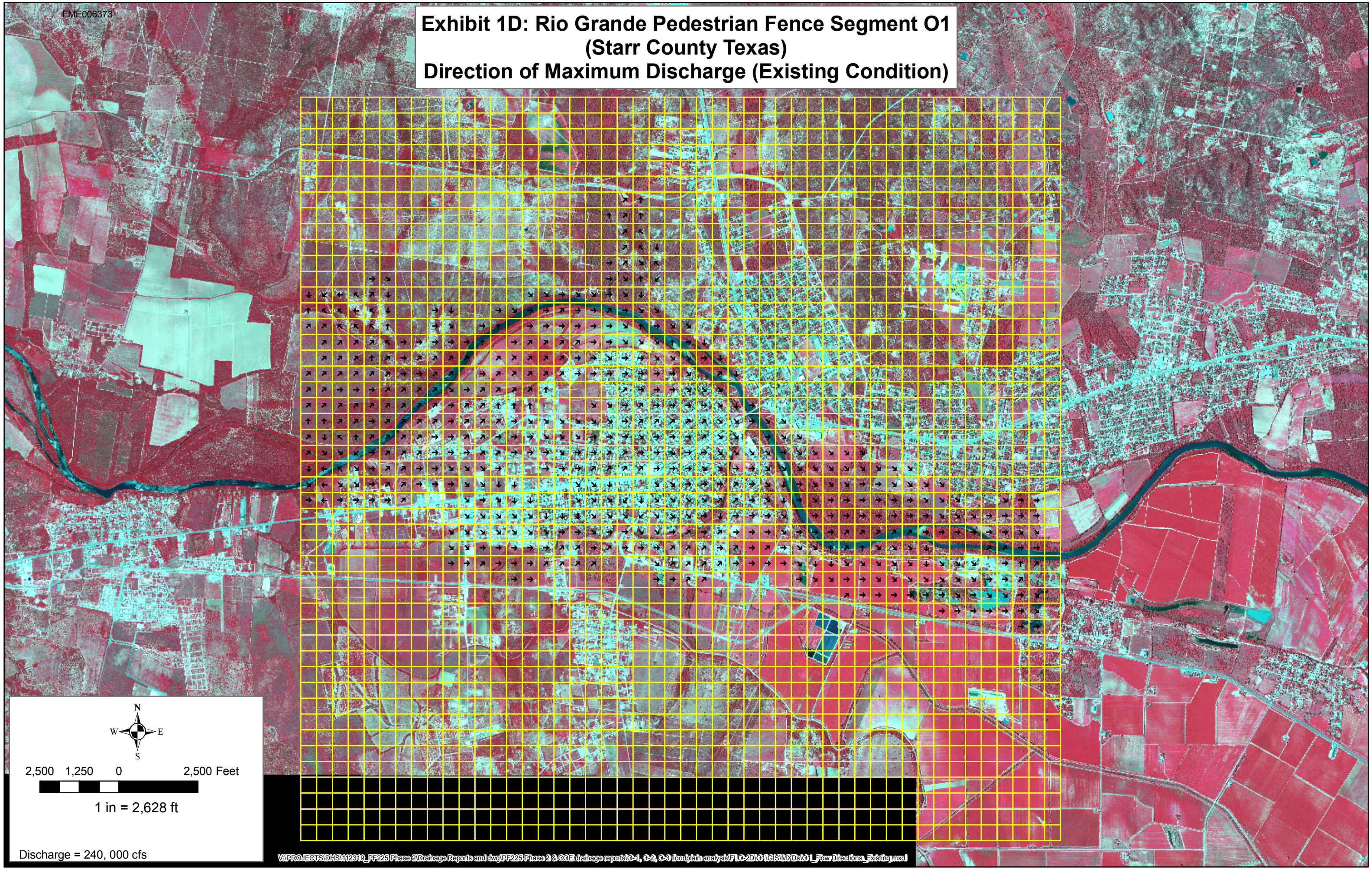
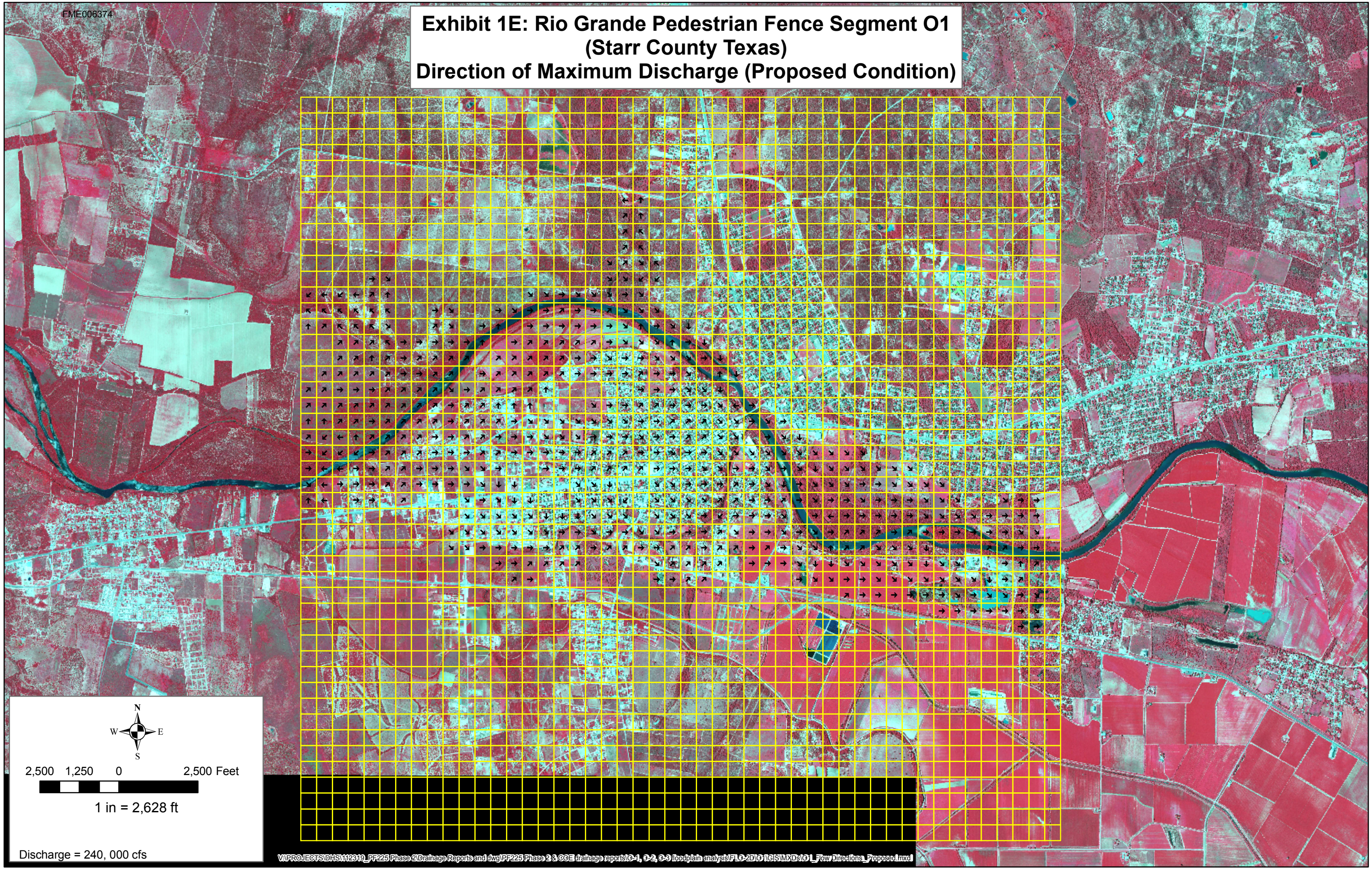


Exhibit 1E: Rio Grande Pedestrian Fence Segment O1 (Starr County Texas) Direction of Maximum Discharge (Proposed Condition)



2,500 1,250 0 2,500 Feet

1 in = 2,628 ft

Discharge = 240, 000 cfs

Exhibit 2A: Rio Grande Pedestrian Fence Segment O2 (Starr County Texas) Two-Dimensional Modeling Features'

FLO-2D Grid

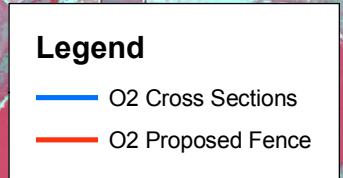
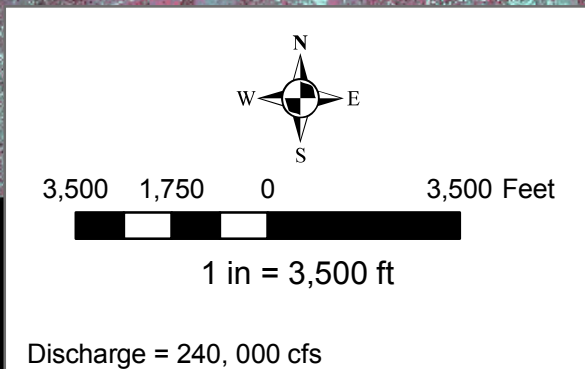
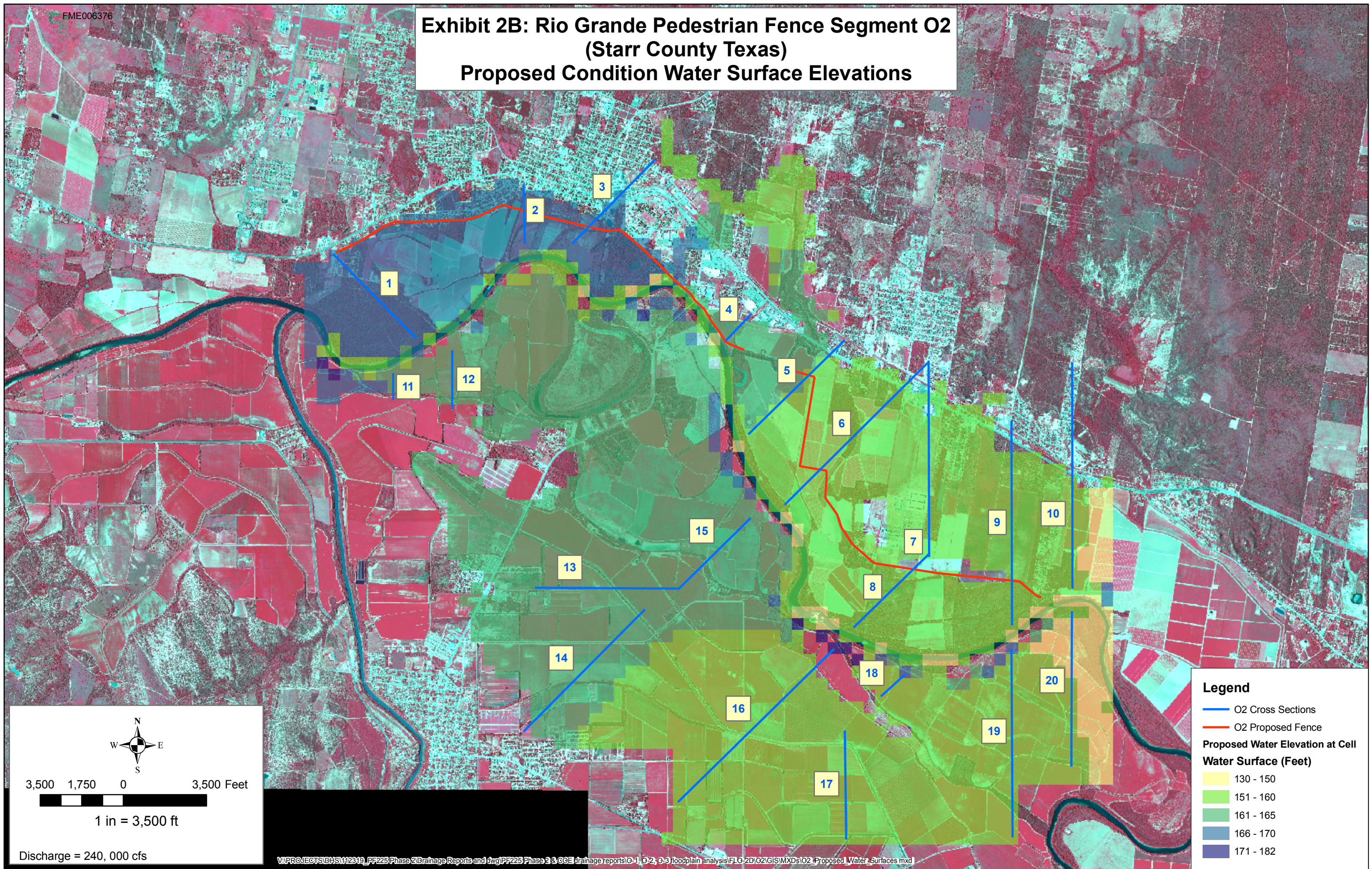


Exhibit 2B: Rio Grande Pedestrian Fence Segment O2 (Starr County Texas) Proposed Condition Water Surface Elevations



Legend

— O2 Cross Sections
— O2 Proposed Fence

**Proposed Water Elevation at Cell
Water Surface (Feet)**

- 130 - 150
- 151 - 160
- 161 - 165
- 166 - 170
- 171 - 182

Exhibit 2C: Rio Grande Pedestrian Fence Segment O2 (Starr County Texas) Increase in Water Depth (Proposed – Existing)

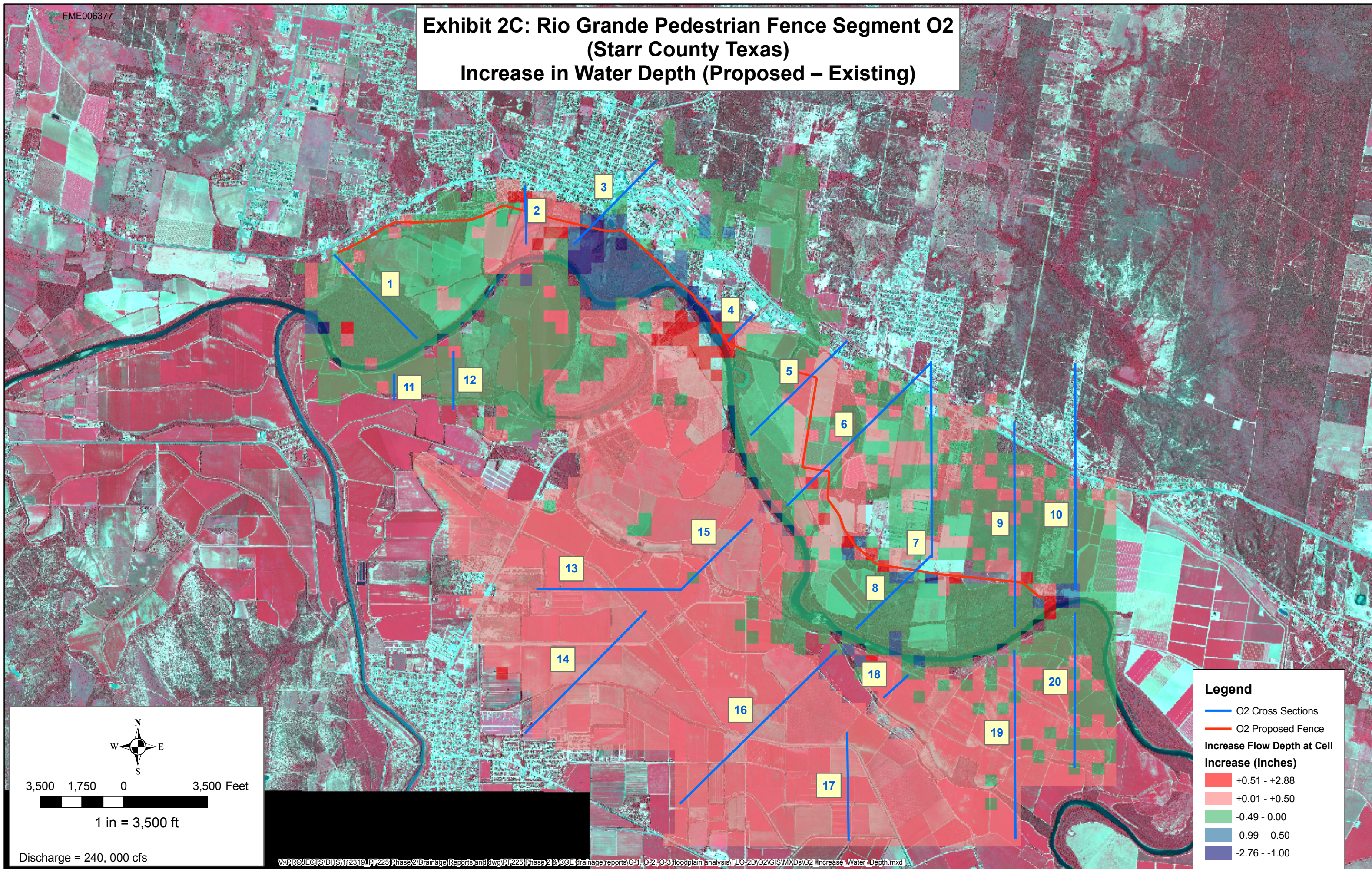
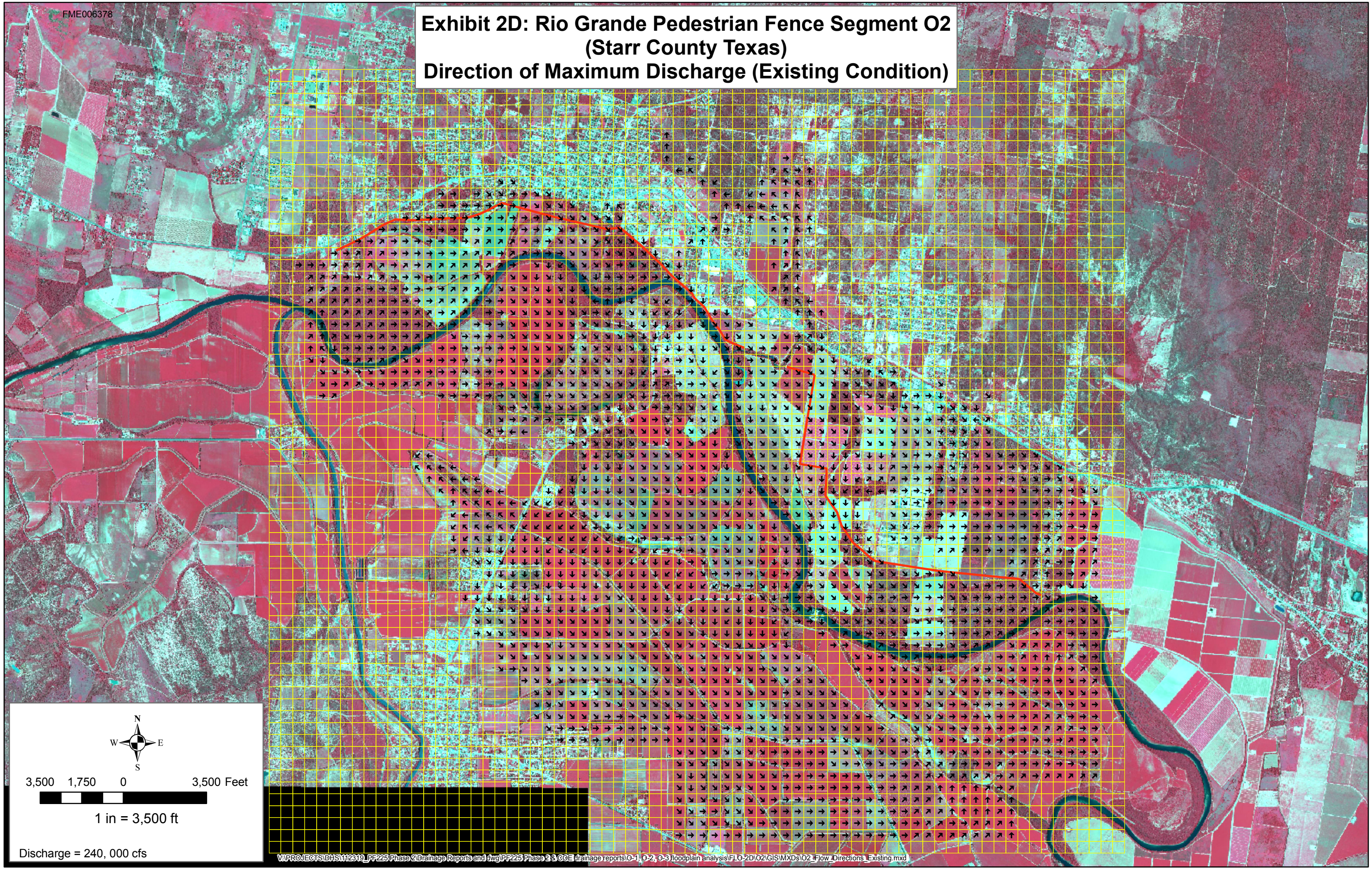


Exhibit 2D: Rio Grande Pedestrian Fence Segment O2 (Starr County Texas) Direction of Maximum Discharge (Existing Condition)



**Exhibit 2E: Rio Grande Pedestrian Fence Segment O2
(Starr County Texas)
Direction of Maximum Discharge (Proposed Condition)**

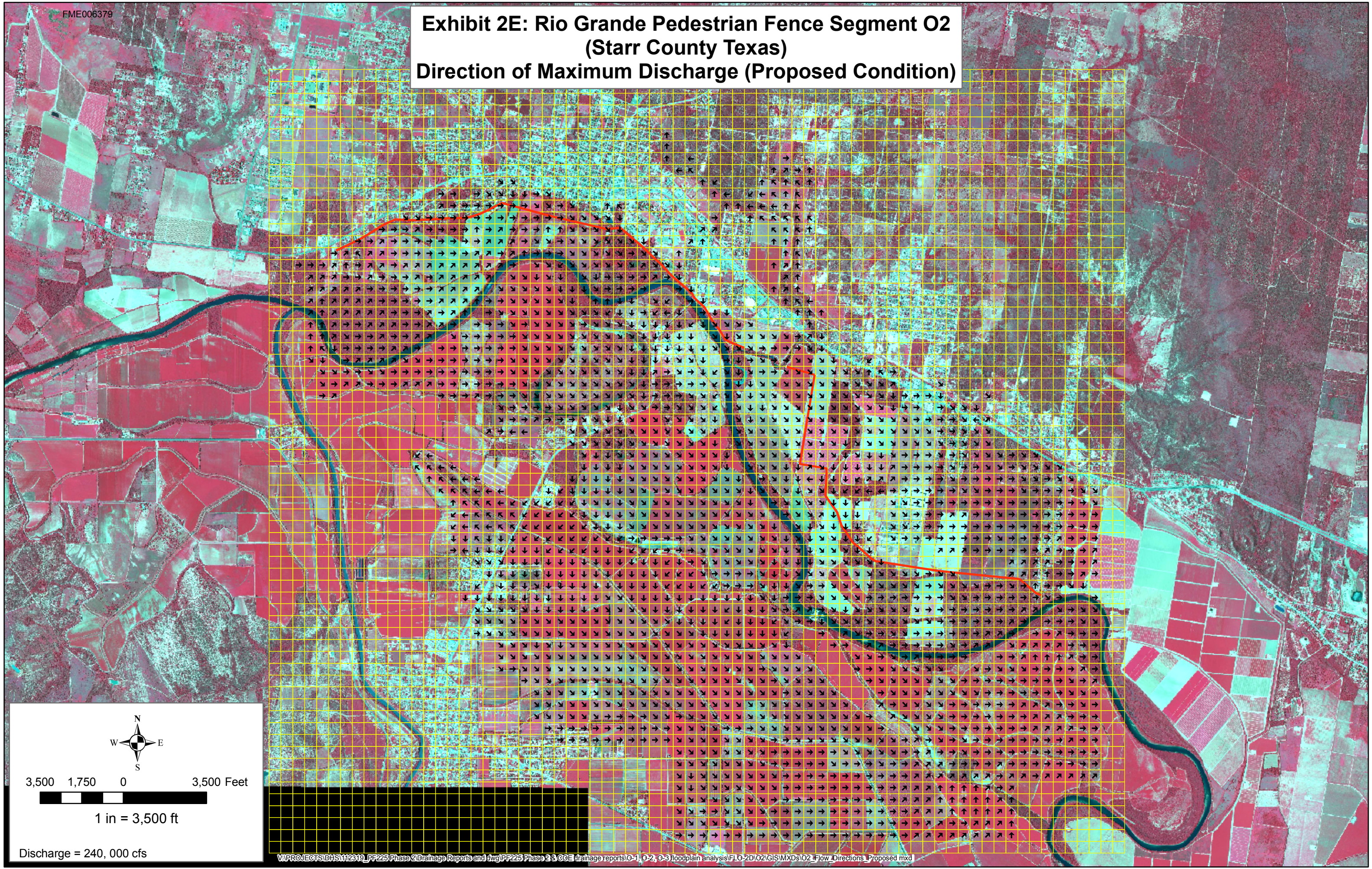
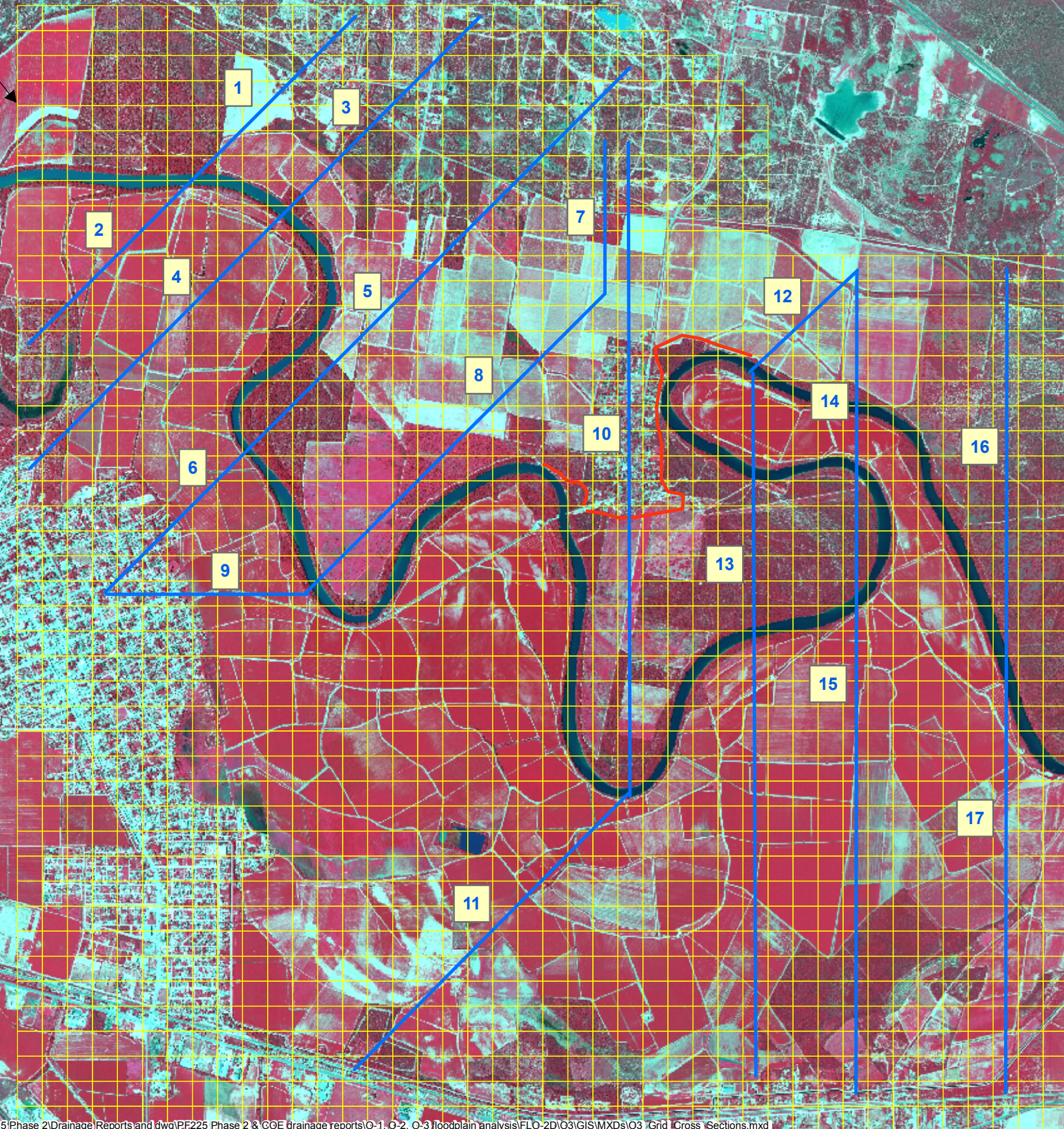


Exhibit 3A: Rio Grande Pedestrian Fence Segment O3 (Hidalgo County Texas) Two-Dimensional Modeling Features

FLO-2D Grid



Legend

- O3 Cross Sections
- O3 Proposed Fence



2,500 1,250 0 2,500 Feet

1 in = 2,500 ft

Discharge = 240, 000 cfs

Exhibit 3B: Rio Grande Pedestrian Fence Segment O3 (Hidalgo County Texas) Proposed Condition Water Surface Elevations

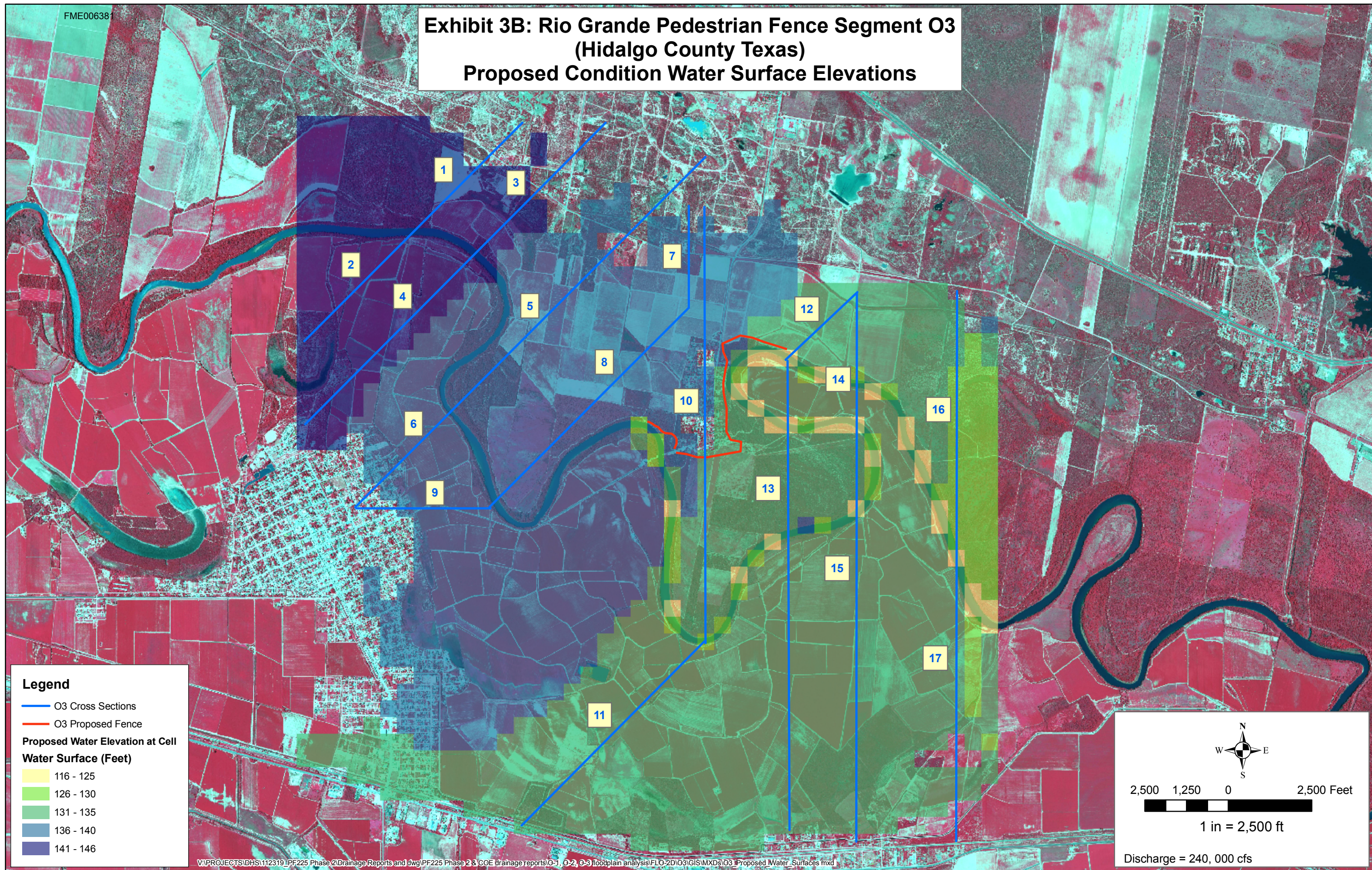
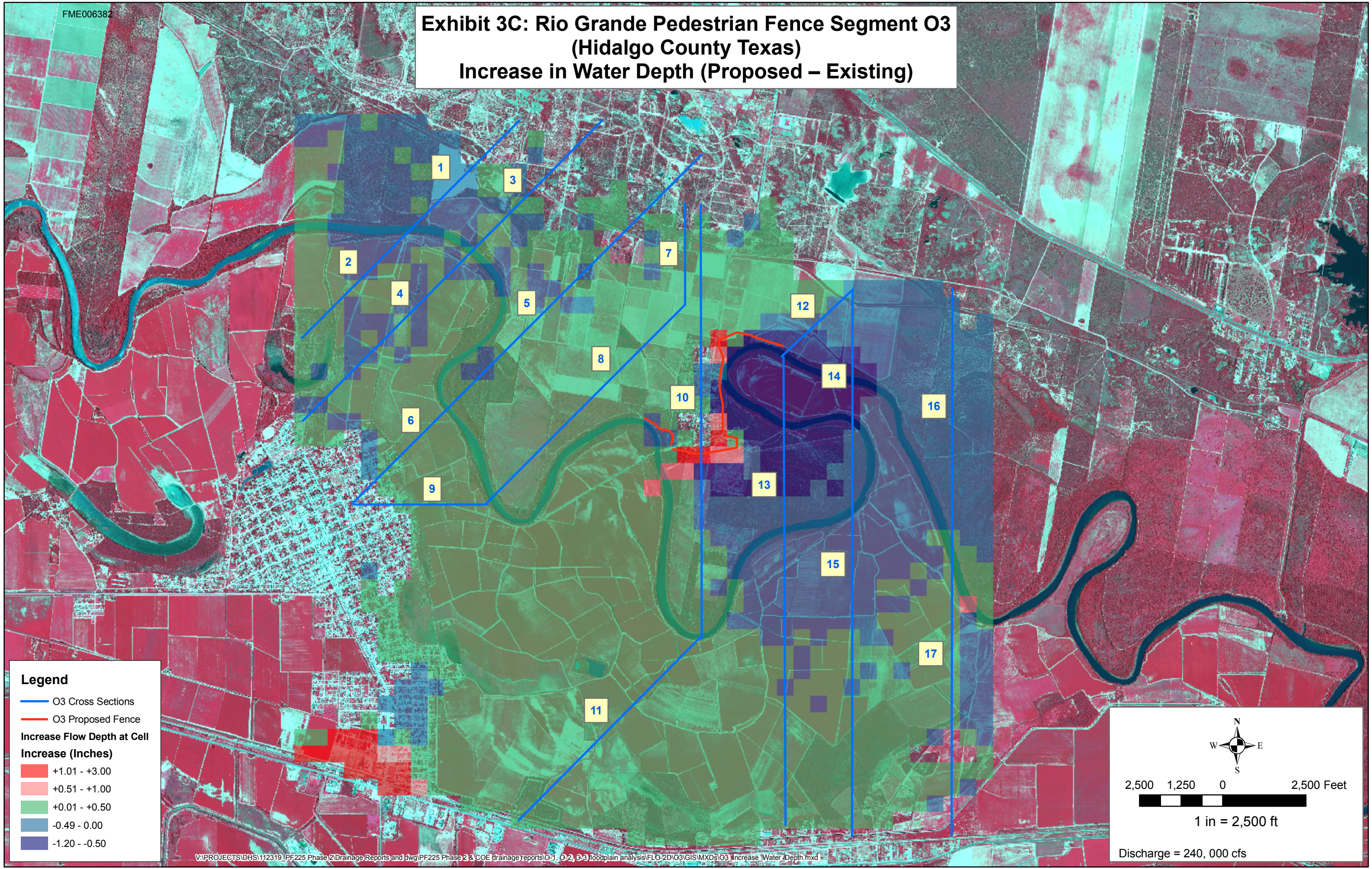
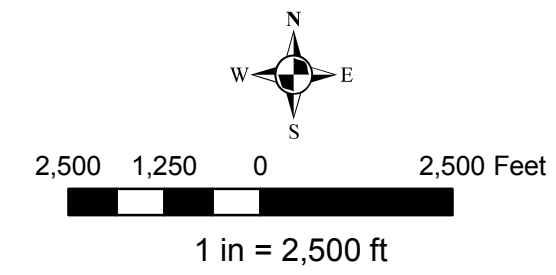


Exhibit 3C: Rio Grande Pedestrian Fence Segment O3 (Hidalgo County Texas) Increase in Water Depth (Proposed – Existing)



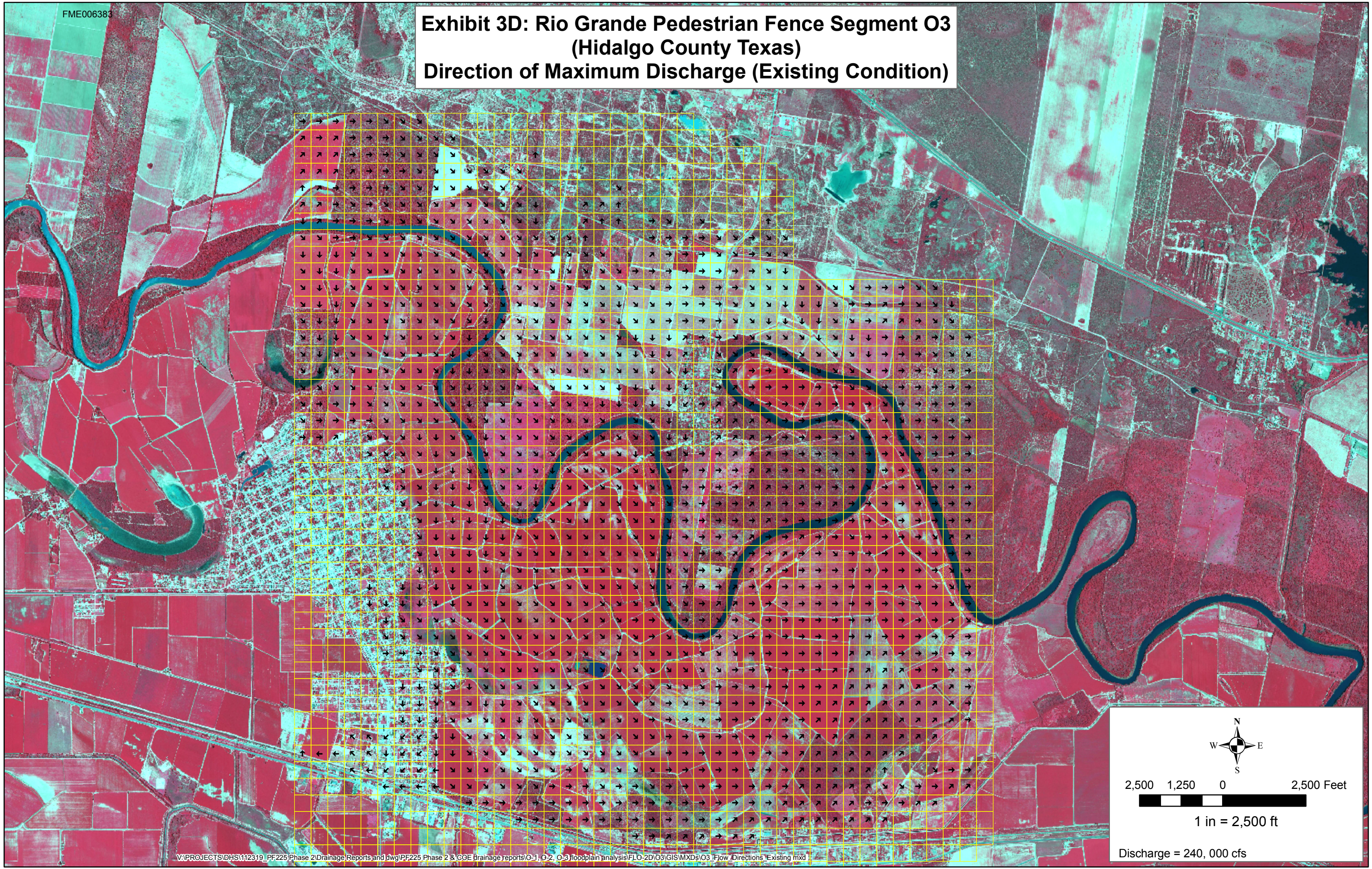
Legend

- O3 Cross Sections
- O3 Proposed Fence
- Increase Flow Depth at Cell**
- Increase (Inches)**
- +1.01 - +3.00
- +0.51 - +1.00
- +0.01 - +0.50
- 0.49 - 0.00
- 1.20 - -0.50



Discharge = 240, 000 cfs

Exhibit 3D: Rio Grande Pedestrian Fence Segment O3 (Hidalgo County Texas) Direction of Maximum Discharge (Existing Condition)



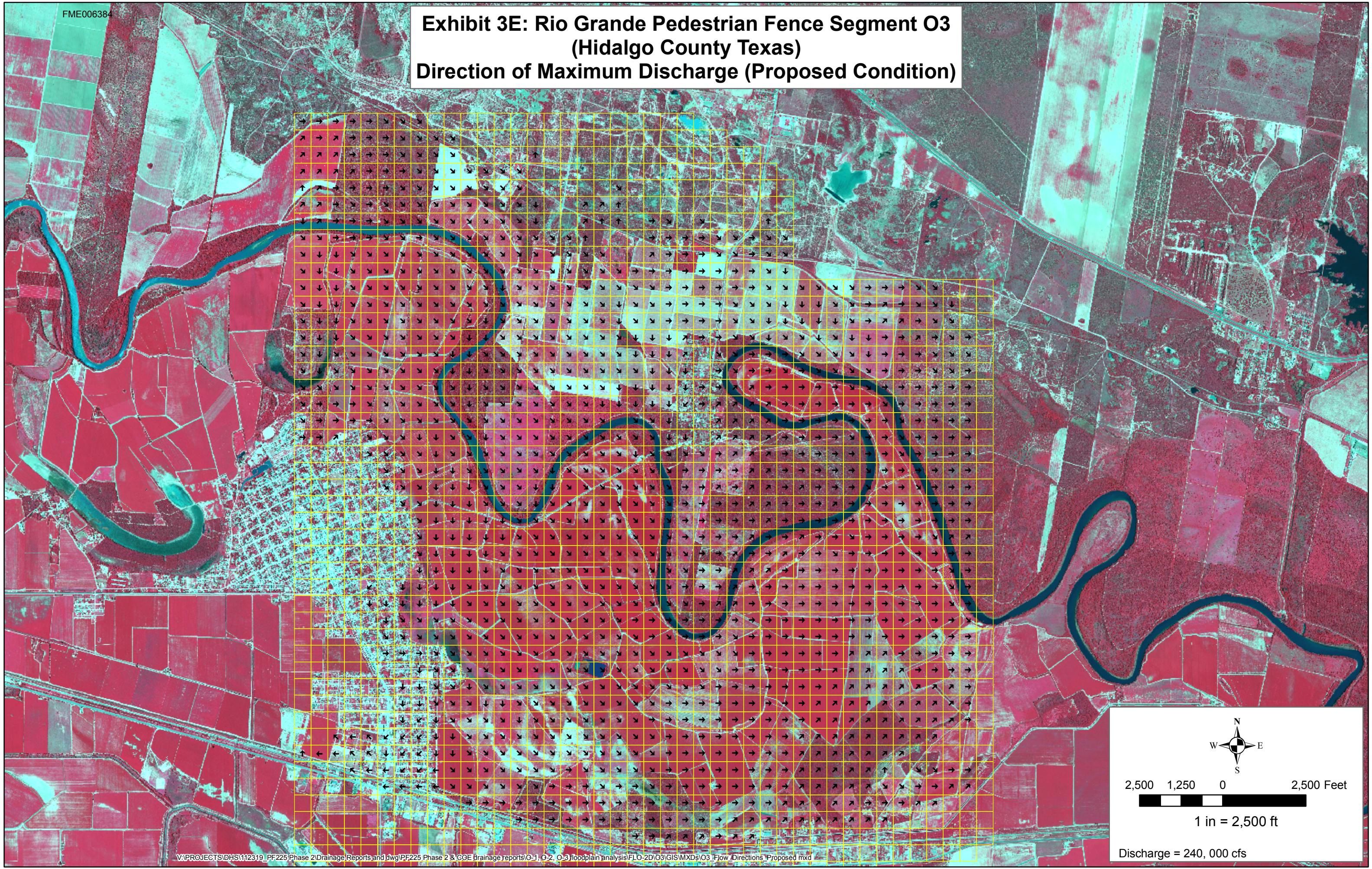
2,500 1,250 0 2,500 Feet



1 in = 2,500 ft

Discharge = 240, 000 cfs

Exhibit 3E: Rio Grande Pedestrian Fence Segment O3 (Hidalgo County Texas) Direction of Maximum Discharge (Proposed Condition)



2,500 1,250 0 2,500 Feet



1 in = 2,500 ft

Discharge = 240, 000 cfs



APPENDIX B

FLO-2D RESULTS

Segment 01

TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)

PROP

NODE	501	502	503	504	505	506	507	508	509	510
ELEVATION	192.19	192.16	192.14	195.35	220.44	263.89	254.26	236.68	222.11	212.87
MAX DEPTH	4.5	2.73	8.99	0	0	0	0	0	0	0
VELOCITY	0.92	0.54	1.41	0	0	0	0	0	0	0
TIME	23.75	23.29	23.3	0	0	0	0	0	0	0
MAX VEL	0.92	0.54	1.41	0	0	0	0	0	0	0
DEPTH	1.23	2.72	2.8	0	0	0	0	0	0	0
TIME	11.19	23.24	10.4	0	0	0	0	0	0	0
NODE	531	532	533	534	535	536	537	538	539	540
ELEVATION	207.16	206.56	200.92	200.91	213.94	218.71	225.75	225.7	224.01	247.67
MAX DEPTH	0	0	4.47	2.31	0	0	0	0	0	0
VELOCITY	0	0	0.5	0.2	0	0	0	0	0	0
TIME	0	0	23.74	23.74	0	0	0	0	0	0
MAX VEL	0	0	0.5	0.2	0	0	0	0	0	0
DEPTH	0	0	3.35	1.69	0	0	0	0	0	0
TIME	0	0	11.97	12.61	0	0	0	0	0	0
NODE	541	542	543	544	545	546	547	548	549	550
ELEVATION	264.17	258.44	214.38	208.94	207.97	197.78	194.37	192.26	192.23	192.24
MAX DEPTH	0	0	0	0	0	0	0	5.78	13.18	6.44
VELOCITY	0	0	0	0	0	0	0	1.16	0.73	1.76
TIME	0	0	0	0	0	0	0	23.27	21.81	21.81
MAX VEL	0	0	0	0	0	0	0	1.16	1.12	1.76
DEPTH	0	0	0	0	0	0	0	5.77	13.1	2.7
TIME	0	0	0	0	0	0	0	19.32	23.85	10.62
NODE	551	552	553	554	555	556	557	558	559	560
ELEVATION	192.11	207.69	231.95	251.68	254.47	243.16	229.16	212.5	208.72	215.78
MAX DEPTH	0.17	0	0	0	0	0	0	0	0	0
VELOCITY	0.03	0	0	0	0	0	0	0	0	0
TIME	24	0	0	0	0	0	0	0	0	0
MAX VEL	0.03	0	0	0	0	0	0	0	0	0
DEPTH	0.17	0	0	0	0	0	0	0	0	0
TIME	23.85	0	0	0	0	0	0	0	0	0
NODE	571	572	573	574	575	576	577	578	579	580
ELEVATION	224.17	204.22	197.3	193.12	191.42	190.95	200.93	200.93	200.93	200.93
MAX DEPTH	0	0	0	0	0	0	7.7	8.97	9.03	4.26
VELOCITY	0	0	0	0	0	0	0.43	1.05	0.82	0.42
TIME	0	0	0	0	0	0	23.76	23.76	24	23.74
MAX VEL	0	0	0	0	0	0	0.43	1.05	0.82	0.42
DEPTH	0	0	0	0	0	0	3.51	3.43	1.97	1.34
TIME	0	0	0	0	0	0	9.82	9.07	8.49	10.62
NODE	581	582	583	584	585	586	587	588	589	590
ELEVATION	200.92	200.92	221.48	222	202.64	201.03	228.88	253.1	220.83	229.99
MAX DEPTH	11.96	1.18	0	0	0	0	0	0	0	0
VELOCITY	0.7	0.06	0	0	0	0	0	0	0	0
TIME	23.74	23.74	0	0	0	0	0	0	0	0
MAX VEL	0.7	0.06	0	0	0	0	0	0	0	0
DEPTH	8.96	0.94	0	0	0	0	0	0	0	0
TIME	10.5	13.83	0	0	0	0	0	0	0	0
NODE	591	592	593	594	595	596	597	598	599	600
ELEVATION	196.48	194.82	194.63	193.64	192.53	192.27	192.23	192.13	199.92	213.9
MAX DEPTH	0.1	16.43	12.83	4.22	12.01	22.61	19.82	1.91	0	0
VELOCITY	0.09	2.6	4.09	3.14	3.32	3.08	2.87	0.4	0	0
TIME	23.73	22.8	22.8	23.91	22.51	23.85	21.81	23.28	0	0
MAX VEL	0.09	2.6	4.09	3.14	3.35	3.08	2.87	0.4	0	0
DEPTH	0.1	16.43	12.82	4.21	11.98	22.55	19.79	1.9	0	0
TIME	23.74	23.41	23.86	23.86	23.85	18.72	22.86	22.26	0	0
NODE	621	622	623	624	625	626	627	628	629	630
ELEVATION	195.24	190.47	189.11	188.64	200.93	200.94	200.93	200.93	200.93	200.92
MAX DEPTH	0	0	0	0	5.28	6.68	11.96	11.88	15.14	3.97
VELOCITY	0	0	0	0	0.14	0.44	0.87	1.15	1.05	0.31
TIME	0	0	0	0	23.76	23.76	23.2	23.74	23.74	23.09
MAX VEL	0	0	0	0	0.14	0.44	0.87	1.15	1.05	0.31
DEPTH	0	0	0	0	4.74	2.5	4.83	8.73	12.36	3.15
TIME	0	0	0	0	12.84	9.82	8.34	10.41	10.67	12.23

EXISTING CONDITION (NO FENCE)

EXIS

NODE	501	502	503	504	505	506	507	508	509	510
ELEVATION	192.94	192.93	192.93	195.35	220.44	263.89	254.26	236.68	222.11	212.87
MAX DEPTH	5.25	3.5	9.78	0	0	0	0	0	0	0
VELOCITY	1.12	0.29	1.52	0	0	0	0	0	0	0
TIME	23.33	23.32	22.4	0	0	0	0	0	0	0
MAX VEL	1.12	0.29	1.52	0	0	0	0	0	0	0
DEPTH	1.52	3.13	2.96	0	0	0	0	0	0	0
TIME	11.37	14.59	10.74	0	0	0	0	0	0	0
NODE	531	532	533	534	535	536	537	538	539	540
ELEVATION	207.16	206.56	201.23	201.22	213.94	218.71	225.75	225.7	224.01	247.67
MAX DEPTH	0	0	4.78	2.62	0	0	0	0	0	0
VELOCITY	0	0	0.52	0.25	0	0	0	0	0	0
TIME	0	0	23.56	23.57	0	0	0	0	0	0
MAX VEL	0	0	0.52	0.25	0	0	0	0	0	0
DEPTH	0	0	3.42	1.83	0	0	0	0	0	0
TIME	0	0	11.8	12.35	0	0	0	0	0	0
NODE	541	542	543	544	545	546	547	548	549	550
ELEVATION	264.17	258.44	214.38	208.94	207.97	197.78	194.37	192.96	192.95	192.93
MAX DEPTH	0	0	0	0	0	0	0	6.48	13.9	7.13
VELOCITY	0	0	0	0	0	0	0	0.71	1.2	1.86
TIME	0	0	0	0	0	0	0	23.1	23.1	23.88
MAX VEL	0	0	0	0	0	0	0	0.71	1.2	1.86
DEPTH	0	0	0	0	0	0	0	5.03	9.98	2.83
TIME	0	0	0	0	0	0	0	12.64	10.94	10.92
NODE	551	552	553	554	555	556	557	558	559	560
ELEVATION	192.92	207.69	231.95	251.68	254.47	243.16	229.16	212.5	208.72	215.78
MAX DEPTH	0.98	0	0	0	0	0	0	0	0	0
VELOCITY	0.09	0	0	0	0	0	0	0	0	0
TIME	23.89	0	0	0	0	0	0	0	0	0
MAX VEL	0.09	0	0	0	0	0	0	0	0	0
DEPTH	0.98	0	0	0	0	0	0	0	0	0
TIME	20.5	0	0	0	0	0	0	0	0	0
NODE	571	572	573	574	575	576	577	578	579	580
ELEVATION	224.17	204.22	197.3	193.12	191.42	190.95	201.25	201.25	201.24	201.24
MAX DEPTH	0	0	0	0	0	0	8.02	9.29	9.34	4.57
VELOCITY	0	0	0	0	0	0	0.47	1.08	0.76	0.45
TIME	0	0	0	0	0	0	24	23.04	23.02	23.56
MAX VEL	0	0	0	0	0	0	0.47	1.08	0.76	0.45
DEPTH	0	0	0	0	0	0	3.66	3.39	1.89	1.35
TIME	0	0	0	0	0	0	9.8	9.02	8.47	10.5
NODE	581	582	583	584	585	586	587	588	589	590
ELEVATION	201.23	201.23	221.48	222	202.64	201.03	228.88	253.1	220.83	229.99
MAX DEPTH	12.27	1.49	0	0	0	0	0	0	0	0
VELOCITY	0.75	0.09	0	0	0	0	0	0	0	0
TIME	23.35	23.56	0	0	0	0	0	0	0	0
MAX VEL	0.75	0.1	0	0	0	0	0	0	0	0
DEPTH	9.11	1.49	0	0	0	0	0	0	0	0
TIME	10.49	23.65	0	0	0	0	0	0	0	0
NODE	591	592	593	594	595	596	597	598	599	600
ELEVATION	196.64	195.44	195.25	194.26	193.09	192.95	192.92	192.89	199.92	213.9
MAX DEPTH	0.26	17.05	13.45	4.84	12.57	23.29	20.51	2.67	0	0
VELOCITY	0.29	2.61	4.22	3.44	2.12	2.13	1.98	0.47	0	0
TIME	23.94	23.68	23.69	23.97	23.97	23.28	23.95	0	0	0
MAX VEL	0.29	2.61	4.22	3.44	2.12	2.13	1.98	0.47	0	0
DEPTH	0.26	17.05	12.57	4.74	11.31	14.64	11.73	2.67	0	0
TIME	23.95	22.09	12.68	15.86	12.8	8.52	8.51	23.71	0	0
NODE	621	622	623	624	625	626	627	628	629	630
ELEVATION	195.24	190.47	189.11	188.64	201.26	201.25	201.25	201.24	201.24	201.23
MAX DEPTH	0	0	0	0	5.61	6.99	12.28	12.19	15.45	4.28
VELOCITY	0	0	0	0	0.18	0.49	0.79	1.07	1.26	0.5
TIME	0	0	0	0	23.41	23.04	23.02	23.35	23.02	22.99
MAX VEL	0	0	0	0	0.18	0.49	0.79	1.07	1.26	0.5
DEPTH	0	0	0	0	4.86	2.64	4.95	9.63	12.23	4.27
TIME	0	0	0	0	12.48	9.8	8.4	10.88	10.44	19.18

DIFFERENCE (= PROPOSED - EXISTING)

DIFF

NODE	501	502	503	504	505	506	507	508	509	510
ELEVATION	-0.75	-0.77	-0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	-0.75	-0.77	-0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY										
TIME										
MAX VEL										
DEPTH										
TIME										
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	531	532	533	534	535	536	537	538	539	540
ELEVATION	0.00	0.00	-0.31	-0.31	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0.00	0.00	-0.31	-0.31	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY										
TIME										
MAX VEL										
DEPTH										
TIME										
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	541	542	543	544	545	546	547	548	549	550
ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	-0.72	-0.69
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.70	-0.72	-0.69
VELOCITY										
TIME										
MAX VEL										
DEPTH										
TIME										
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	551	552	553	554	555	556	557	558	559	560
ELEVATION	-0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	-0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY										
TIME										
MAX VEL										
DEPTH										
TIME										
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	571	572	573	574	575	576	577	578	579	580
ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	-0.32	-0.32	-0.31	-0.31
MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	-0.32	-0.32	-0.31	-0.31
VELOCITY										
TIME										
MAX VEL										
DEPTH										
TIME										
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	581	582	583	584	585	586	587	588	589	590
ELEVATION	-0.31	-0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	-0.31	-0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY										
TIME										
MAX VEL										
DEPTH										
TIME										
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	591	592	593	594	595	596	597	598	599	600
ELEVATION	-0.16	-0.62	-0.62	-0.62	-0.56	-0.68	-0.69	-0.76	0.00	0.00
MAX DEPTH	-0.16	-0.62	-0.62	-0.62	-0.56	-0.68	-0.69	-0.76	0.00	0.00
VELOCITY										
TIME										
MAX VEL										
DEPTH										
TIME										
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	621	622	623	624	625	626	627	628	629	630
ELEVATION	0.00	0.00	0.00	0.00	-0.33	-0.31	-0.32	-0.31	-0.31	-0.31
MAX DEPTH	0.00	0.00	0.00	0.00	-0.33	-0.31	-0.32	-0.31	-0.31	-0.31
VELOCITY										
TIME										
MAX VEL										
DEPTH										
TIME										

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (= PROPOSED - EXISTING)											
PROP										EXIS										DIFF											
NODE	631	632	633	634	635	636	637	638	639	640	NODE	631	632	633	634	635	636	637	638	639	640	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	214.64	223.86	200.33	200.33	226.33	241.75	197.72	196.75	195.89	194.77	ELEVATION	214.64	223.86	200.68	200.67	226.33	241.75	198.23	197.33	196.49	195.39	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0	0	13.03	0.26	0	0	7.61	18.8	38.15	30.14	MAX DEPTH	0	0	13.38	0.6	0	0	8.12	19.38	38.75	30.76	MAX DEPTH	0.00	0.00	-0.35	-0.34	0.00	0.00	-0.51	-0.58	-0.60
VELOCITY	0	0	0.28	0.03	0	0	3.26	6.25	5.42	1.64	VELOCITY	0	0	0.3	0.06	0	0	3.29	6.29	5.49	1.65	VELOCITY	0.00	0.00	-0.35	-0.34	0.00	0.00	-0.51	-0.58	-0.60
TIME	0	0	22.97	23.07	0	0	23.53	23.7	23.7	22.8	TIME	0	0	23.65	23.68	0	0	23.66	23.67	23.68	23.68	TIME									
MAX VEL	0	0	0.28	0.03	0	0	3.26	6.25	5.42	1.64	MAX VEL	0	0	0.3	0.06	0	0	3.29	6.29	5.49	1.65	MAX VEL									
DEPTH	0	0	9.78	0.25	0	0	7.6	18.8	38.15	30.14	DEPTH	0	0	9.85	0.58	0	0	8.12	19.38	38.75	30.76	DEPTH									
TIME	0	0	10.44	21.82	0	0	22.77	22.76	22.75	23.41	TIME	0	0	10.32	16.7	0	0	23.66	23.67	23.67	22.4	TIME									
NODE	641	642	643	644	645	646	647	648	649	650	NODE	641	642	643	644	645	646	647	648	649	650	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	194.67	193.61	192.35	192.43	192.17	192.13	192.04	196.62	193.5	213.48	ELEVATION	195.29	194.24	193.01	192.95	192.9	192.86	192.79	196.62	193.5	213.48	ELEVATION	-0.62	-0.63	-0.66	-0.52	-0.73	-0.73	-0.75	0.00	0.00
MAX DEPTH	27.83	28.34	28.17	32.88	35.71	24.75	13.42	0	0	0	MAX DEPTH	28.45	28.97	28.83	33.4	36.44	25.48	14.17	0	0	0	MAX DEPTH	-0.62	-0.63	-0.66	-0.52	-0.73	-0.73	-0.75	0.00	0.00
VELOCITY	2.25	4.28	2.95	4.1	3.25	3.41	2.23	0	0	0	VELOCITY	2.41	4.6	1.97	1.96	2.91	2.69	1.89	0	0	0	VELOCITY									
TIME	22.8	23.92	23.85	22.5	23.28	23.28	22.22	0	0	0	TIME	23.68	23.97	23.97	23.95	23.51	23.97	23.46	0	0	0	TIME									
MAX VEL	2.25	4.28	2.95	4.1	3.25	3.41	2.23	0	0	0	MAX VEL	2.41	4.6	1.97	1.96	2.91	2.69	1.89	0	0	0	MAX VEL									
DEPTH	27.83	28.32	22.82	32.75	35.61	24.67	12.83	0	0	0	DEPTH	28.45	27.26	20.34	24.9	27.77	16.76	14.16	0	0	0	DEPTH									
TIME	22.74	19	9.46	20.53	17.02	17.02	13.6	0	0	0	TIME	23.81	12.02	8.54	8.54	8.52	8.54	19.17	0	0	0	TIME									
NODE	671	672	673	674	675	676	677	678	679	680	NODE	671	672	673	674	675	676	677	678	679	680	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	187.74	187.81	200.94	200.94	200.94	200.94	200.93	200.92	201.1	208.53	ELEVATION	187.74	187.81	201.26	201.26	201.25	201.25	201.24	201.23	201.17	208.53	ELEVATION	0.00	0.00	-0.32	-0.32	-0.31	-0.31	-0.31	-0.31	-0.07
MAX DEPTH	0	0	0.29	1.12	3.79	13.94	18.98	8.78	0	0	MAX DEPTH	0	0	0.61	1.44	4.1	14.25	19.29	9.09	0.07	0	MAX DEPTH	0.00	0.00	-0.32	-0.32	-0.31	-0.31	-0.31	-0.31	-0.07
VELOCITY	0	0	0.01	0.08	0.23	0.92	1.29	0.75	0	0	VELOCITY	0	0	0.04	0.14	0.31	1.04	1.27	0.74	0	0	VELOCITY									
TIME	0	0	23.76	23.76	23.75	23.93	23.24	23.54	0	0	TIME	0	0	23.41	23.05	23.38	24	21.2	22.75	24	0	TIME									
MAX VEL	0	0	0.01	0.08	0.23	0.92	1.29	0.75	0	0	MAX VEL	0	0	0.04	0.14	0.31	1.04	1.27	0.74	0	0	MAX VEL									
DEPTH	0	0	0.27	1.09	2.48	11.76	14.33	8.76	0	0	DEPTH	0	0	0.61	1.23	3.27	11.85	16.2	9.09	0	0	DEPTH									
TIME	0	0	19.28	17.32	11.79	11.09	9.5	16.53	0	0	TIME	0	0	23.65	14.32	12.27	10.98	10.54	23.38	0	0	TIME									
NODE	681	682	683	684	685	686	687	688	689	690	NODE	681	682	683	684	685	686	687	688	689	690	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	200.35	200.32	212.26	198.97	198.64	196.74	196.46	196.39	196.28	196.12	ELEVATION	200.7	200.67	212.26	199.43	199.09	197.32	197	196.95	196.85	196.69	ELEVATION	-0.35	-0.35	0.00	-0.46	-0.45	-0.58	-0.54	-0.56	-0.57
MAX DEPTH	19.28	4.24	0	7.09	39.02	32.11	21.95	20.35	21.79	26.59	MAX DEPTH	19.63	4.59	0	7.55	39.47	32.69	22.49	20.91	22.36	27.16	MAX DEPTH	-0.35	-0.35	0.00	-0.46	-0.45	-0.58	-0.54	-0.56	-0.57
VELOCITY	1.16	0.81	0	2.78	5.55	0	1.72	2.07	2.64	4.12	VELOCITY	1.16	0.82	0	2.83	5.5	0	1.71	2.05	2.61	4.05	VELOCITY									
TIME	22.76	22.73	0	23.53	23.53	23.7	22.69	22.69	23.69	22.69	TIME	23.62	23.65	0	23.66	23.66	23.67	23.72	23.68	23.68	23.68	TIME									
MAX VEL	1.16	0.81	0	2.78	5.55	0	1.72	2.07	2.64	4.12	MAX VEL	1.16	0.82	0	2.83	5.5	0	1.71	2.05	2.61	4.05	MAX VEL									
DEPTH	16.86	4.24	0	7.09	37.91	0	21.95	20.35	21.79	25.74	DEPTH	8.5	4.56	0	7.55	38.28	0	22.13	20.53	21.98	26.27	DEPTH									
TIME	10.97	22.78	0	22.77	12.15	0	23.72	22.2	19.63	12.71	TIME	7.11	16.54	0	23.06	12.09	0	13.77	13.77	13.79	12.67	TIME									
NODE	691	692	693	694	695	696	697	698	699	700	NODE	691	692	693	694	695	696	697	698	699	700	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	195.79	195.43	195.18	192.04	191.99	191.9	191.87	204.79	212.59	231.14	ELEVATION	196.38	196.03	195.8	192.84	192.77	192.64	192.46	204.79	212.59	231.14	ELEVATION	-0.59	-0.60	-0.62	-0.80	-0.78	-0.74	-0.59	0.00	0.00
MAX DEPTH	24.51	24.1	25.89	31.23	34.02	20.85	7.59	0	0	0	MAX DEPTH																				

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)

PROP										
NODE	761	762	763	764	765	766	767	768	769	770
ELEVATION	207.89	206.5	206.83	191.34	186.41	187.18	187.45	187.31	202.07	201.74
MAX DEPTH	0	0	0	0	0	0	0	0	0	0
VELOCITY	0	0	0	0	0	0	0	0	0	0
TIME	0	0	0	0	0	0	0	0	0	24
MAX VEL	0	0	0	0	0	0	0	0	0	0
DEPTH	0	0	0	0	0	0	0	0	0	0
TIME	0	0	0	0	0	0	0	0	0	0
NODE	771	772	773	774	775	776	777	778	779	780
ELEVATION	201.37	201	200.98	200.99	200.84	200.65	200.45	200.32	200.06	171.18
MAX DEPTH	0.37	2.96	9.68	19.57	3.77	5.67	13.89	35.59	45.68	0
VELOCITY	0.22	0.52	0.96	2.03	0.99	1.37	2.06	4.11	3.45	0
TIME	23.12	23.1	23.1	23.56	22.79	22.76	22.76	22.76	22.96	0
MAX VEL	0.22	0.52	0.96	2.03	0.99	1.37	2.06	4.11	3.45	0
DEPTH	0.37	2.92	7.63	18.98	3.77	5.53	13.2	17.79	44.6	0
TIME	23.24	15.84	11.13	12.59	22.79	14.42	12.44	4.86	12.05	0
NODE	781	782	783	784	785	786	787	788	789	790
ELEVATION	196.96	196.78	196.62	196.5	196.42	196.15	195.73	195.3	194.9	194.35
MAX DEPTH	18.62	18.39	20.08	22.97	21.77	4.04	2.96	3.28	3.51	5.8
VELOCITY	2.82	2.76	2.45	2.75	3.06	2.23	2.15	2.33	2.85	2.85
TIME	23.52	23.52	22.72	22.72	22.72	23.51	22.67	22.68	22.65	22.5
MAX VEL	2.82	2.76	2.45	2.75	3.06	2.23	2.15	2.33	2.85	2.85
DEPTH	17.84	17.61	20.08	22.93	21.76	4.04	2.96	3.28	3.5	5.8
TIME	12.74	12.75	21.69	16.69	20.13	23.51	23.52	23.39	20.55	20.24
NODE	791	792	793	794	795	796	797	798	799	800
ELEVATION	193.83	193.3	193.1	190.8	190.8	202.14	232.69	222.43	208.51	196.51
MAX DEPTH	12.91	18.44	36.37	38.42	26.93	0	0	0	0	0
VELOCITY	3.81	3.2	3.4	4.16	4.42	0	0	0	0	0
TIME	22.49	22.49	22.5	22.49	22.5	0	0	0	0	0
MAX VEL	3.81	3.2	3.4	4.16	4.42	0	0	0	0	0
DEPTH	12.9	18.43	36.36	32.97	21.42	0	0	0	0	0
TIME	23.23	23.15	23.75	9.46	9.47	0	0	0	0	0
NODE	811	812	813	814	815	816	817	818	819	820
ELEVATION	199.18	188.28	187.07	187.8	188.03	187.69	201.8	201.75	201.6	201.36
MAX DEPTH	0	0	0	0	0	0	0.04	0.7	0.98	1.42
VELOCITY	0	0	0	0	0	0	0	0.21	0.4	0.6
TIME	0	0	0	0	0	0	24	23.72	23.67	23.1
MAX VEL	0	0	0	0	0	0	0	0.21	0.4	0.6
DEPTH	0	0	0	0	0	0	0	0.7	0.98	1.42
TIME	0	0	0	0	0	0	22.68	23.71	20.75	
NODE	821	822	823	824	825	826	827	828	829	830
ELEVATION	201.15	201.02	200.94	200.79	200.65	200.4	168.71	197.43	197.22	196.98
MAX DEPTH	1.81	13.29	20.45	27.17	32.3	46.62	0	19.66	19.33	20.7
VELOCITY	0.56	1.7	2.75	3.48	5.82	3.63	0	3.13	3.43	3.68
TIME	23.1	23.56	22.74	22.74	22.76	22.73	0	22.7	23.52	23.52
MAX VEL	0.56	1.7	2.75	3.48	5.82	3.63	0	3.13	3.43	3.68
DEPTH	1.81	13.29	20.3	19.93	18.27	19.99	0	18.76	18.58	19.77
TIME	22.35	21.45	14.26	8.25	5.63	3.14	0	12.51	12.75	12.52
NODE	831	832	833	834	835	836	837	838	839	840
ELEVATION	196.73	196.57	196.44	196.13	195.66	195.22	194.83	194.36	193.78	193.18
MAX DEPTH	23.82	20.75	5.49	2.82	4.02	4.52	4.09	4.2	5.36	7.94
VELOCITY	3.02	2.58	1.44	1.73	2.36	2.74	2.95	2.41	2.35	2.77
TIME	22.72	22.72	23.51	23.51	22.69	22.68	22.65	23.64	22.5	22.5
MAX VEL	3.02	2.58	1.44	1.73	2.36	2.74	2.95	2.41	2.35	2.77
DEPTH	23.81	20.74	5.49	2.82	4.02	4.52	4.09	4.2	5.35	7.94
TIME	23.23	23.42	23.07	23.51	22.72	22.72	23.66	20.55	22.52	23.84

EXISTING CONDITION (NO FENCE)

EXIS										
NODE	761	762	763	764	765	766	767	768	769	770
ELEVATION	207.89	206.5	206.83	191.34	186.41	187.18	187.45	187.31	202.07	201.9
MAX DEPTH	0	0	0	0	0	0	0	0	0	0.16
VELOCITY	0	0	0	0	0	0	0	0	0	0.06
TIME	0	0	0	0	0	0	0	0	0	24
MAX VEL	0	0	0	0	0	0	0	0	0	0.06
DEPTH	0	0	0	0	0	0	0	0	0	0.16
TIME	0	0	0	0	0	0	0	0	0	23.94
NODE	771	772	773	774	775	776	777	778	779	780
ELEVATION	201.61	201.31	201.29	201.29	201.15	200.98	200.79	200.67	200.43	171.18
MAX DEPTH	0.61	3.27	9.99	19.87	4.08	6	14.23	35.94	46.05	0
VELOCITY	0.28	0.56	0.91	2.04	1.02	1.36	2.01	4.08	3.49	0
TIME	23.8	23.77	23.86	22.06	23.57	22.35	22.83	23.65	23.65	0
MAX VEL	0.28	0.56	0.91	2.04	1.02	1.36	2.01	4.08	3.49	0
DEPTH	0.6	3.25	9.54	19.04	4.07	6	13.49	16.66	42.76	0
TIME	18.86	17.3	13.02	12.22	19.15	21.4	12.39	4.57	10.5	0
NODE	781	782	783	784	785	786	787	788	789	790
ELEVATION	197.48	197.32	197.16	197.05	196.97	196.71	196.31	195.91	195.52	195.01
MAX DEPTH	19.14	18.93	20.62	23.52	22.32	4.6	3.54	3.89	4.13	6.46
VELOCITY	2.78	2.73	2.43	2.73	3.03	2.42	2.38	2.56	3.08	3
TIME	23.67	23.67	23.68	23.89	23.89	23.65	23.69	23.73	23.67	23.73
MAX VEL	2.78	2.73	2.43	2.73	3.03	2.42	2.38	2.56	3.08	3
DEPTH	18.34	18.37	20.25	23.15	21.8	4.6	3.54	3.89	4.13	6.46
TIME	12.72	13.21	13.77	13.77	13.34	23.6	23.65	23.77	23.55	23.81
NODE	791	792	793	794	795	796	797	798	799	800
ELEVATION	194.49	193.95	193.74	192.2	192.07	202.14	232.69	222.43	208.51	196.51
MAX DEPTH	13.57	19.09	37.01	39.82	28.2	0	0	0	0	0
VELOCITY	3.97	3.39	3.63	3.87	4	0	0	0	0	0
TIME	23.73	23.73	23.85	23.58	24	0	0	0	0	0
MAX VEL	3.97	3.39	3.63	3.87	4	0	0	0	0	0
DEPTH	13.57	19.09	37.01	39.77	23.56	0	0	0	0	0
TIME	23.67	23.67	23.39	20.9	10.5	0	0	0	0	0
NODE	811	812	813	814	815	816	817	818	819	820
ELEVATION	199.18	188.28	187.07	187.8	188.03	187.69	202.07	202	201.86	201.64
MAX DEPTH	0	0	0	0	0	0	0.31	0.95	1.24	1.7
VELOCITY	0	0	0	0	0	0	0.09	0.26	0.46	0.67
TIME	0	0	0	0	0	0	22.19	21.04	23.45	23.64
MAX VEL	0	0	0	0	0	0	0.09	0.26	0.46	0.67
DEPTH	0	0	0	0	0	0	0.31	0.95	1.24	1.69
TIME	0	0	0	0	0	0	18.07	21.04	23.42	23.62
NODE	821	822	823	824	825	826	827	828	829	830
ELEVATION	201.44	201.32	201.24	201.1	200.96	200.75	168.71	197.92	197.72	197.5
MAX DEPTH	2.1	13.59	20.75	27.48	32.61	46.97	0	20.15	19.83	21.22
VELOCITY	0.63	1.69	2.7	3.43	5.78	3.63	0	3.08	3.38	3.62
TIME	22.26	21.93	23.64	23.64	23.64	23.64	0	23.66	23.67	23.67
MAX VEL	0.63	1.69	2.7	3.43	5.78	3.63	0	3.08	3.38	3.62
DEPTH	2.1	13.58	20.74	19.61	14.91	19.99	0	19.21	18.87	20.25
TIME	23.43	18.85	19.19	8.07	4.55	3.14	0	12.47	12.47	12.48
NODE	831	832	833	834	835	836	837	838	839	840
ELEVATION	197.27	197.11	196.98	196.69	196.26	195.84	195.46	195	194.43	193.82
MAX DEPTH	24.36	21.29	6.03	3.38	4.62	5.14	4.72	4.84	6.01	8.58
VELOCITY	2.99	2.55	1.59	1.92	2.52	2.97	3.2	2.61	2.54	3.08
TIME	23.66	23.89	23.43	23.69	23.7	23.67	23.67	23.72	23.72	23.85
MAX VEL	2.99	2.55	1.59	1.92	2.52	2.97	3.2	2.61	2.54	3.08
DEPTH	23.99	20.9	6.03	3.38	4.62	5.14	4.72	4.83	6	8.58
TIME	13.77	13.71	23.08	23.65	23.66	23.71	23.7	23.46	23.95	23.73

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	841	842	843	844	845	846	847	848	849	850	NODE	841	842	843	844	845	846	847	848	849	850	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	192.85	161.56	190.78	190.72	229.09	232.35	212.63	196.76	191.81	197.88	ELEVATION	193.47	161.56	191.99	191.94	229.09	232.35	212.63	196.76	191.81	197.88	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	16.47	0	40.04	14.59	0	0	0	0	0	0	MAX DEPTH	17.09	0	41.25	15.81	0	0	0	0	0	0	MAX DEPTH	-0.62	0.00	-1.21	-1.22	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	6.9	0	3.4	3.97	0	0	0	0	0	0	VELOCITY	7.62	0	2.47	2.99	0	0	0	0	0	0	VELOCITY	-0.62	0.00	-1.21	-1.22	0.00	0.00	0.00	0.00	0.00	0.00
TIME	22.49	0	22.49	23.42	0	0	0	0	0	0	TIME	23.71	0	23.99	24	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	6.9	0	3.4	3.97	0	0	0	0	0	0	MAX VEL	7.62	0	2.47	2.99	0	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	15.93	0	34.18	8.61	0	0	0	0	0	0	DEPTH	15.93	0	32.03	15.8	0	0	0	0	0	0	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	13.63	0	9.29	9.34	0	0	0	0	0	0	TIME	12.63	0	8.34	23.43	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	861	862	863	864	865	866	867	868	869	870	NODE	861	862	863	864	865	866	867	868	869	870	NODE	861	862	863	864	865	866	867	868	869	870
ELEVATION	188	188.32	188.1	187.06	201.86	201.84	201.76	201.63	201.38	201.14	ELEVATION	188	188.32	188.1	187.06	202.11	202.09	202.02	201.89	201.66	201.43	ELEVATION	0.00	0.00	0.00	0.00	-0.25	-0.25	-0.26	-0.26	-0.28	-0.29
MAX DEPTH	0	0	0	0	1.07	1.96	3.65	5.84	7.84	14.27	MAX DEPTH	0	0	0	0	1.32	2.21	3.91	6.1	8.12	14.56	MAX DEPTH	0.00	0.00	0.00	0.00	-0.25	-0.25	-0.26	-0.26	-0.28	-0.29
VELOCITY	0	0	0	0	0.15	0.36	0.83	1.53	1.88	2.23	VELOCITY	0	0	0	0	0.18	0.4	0.85	1.53	1.87	2.22	VELOCITY	0.00	0.00	0.00	0.00	-0.25	-0.25	-0.26	-0.26	-0.28	-0.29
TIME	0	0	0	0	23.4	20.74	23.58	23.11	23.56	23.56	TIME	0	0	0	0	22.1	21.8	23.63	23.44	23.25	21.93	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0	0	0	0	0.15	0.36	0.83	1.53	1.88	2.23	MAX VEL	0	0	0	0	0.18	0.4	0.85	1.53	1.87	2.22	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0	0	0	0	0.83	1.96	3.65	5.81	7.41	13.48	DEPTH	0	0	0	0	0.95	2.21	3.91	6.09	7.89	13.69	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0	0	0	0	13.52	18.96	20.75	16.58	12.8	12.17	TIME	0	0	0	0	12.99	21	20.13	19.5	13.73	12.09	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	871	872	873	874	875	876	877	878	879	880	NODE	871	872	873	874	875	876	877	878	879	880	NODE	871	872	873	874	875	876	877	878	879	880
ELEVATION	201.01	200.86	200.74	200.62	199.26	197.87	197.35	197.17	196.94	196.78	ELEVATION	201.3	201.16	201.05	200.93	199.64	198.33	197.84	197.68	197.46	197.26	ELEVATION	-0.29	-0.30	-0.31	-0.31	-0.38	-0.46	-0.49	-0.51	-0.52	-0.48
MAX DEPTH	21.89	28.86	46.74	32.98	24.6	22.66	20.46	15.4	7.79	0.25	MAX DEPTH	22.18	29.16	47.05	33.29	24.98	23.12	20.95	15.91	8.31	0.73	MAX DEPTH	-0.29	-0.30	-0.31	-0.31	-0.38	-0.46	-0.49	-0.51	-0.52	-0.48
VELOCITY	3.02	4.31	8.48	7.42	7.08	7.62	6.44	3.87	1.71	0.12	VELOCITY	2.98	4.15	8.48	7.29	6.98	7.48	6.38	3.83	1.72	0.31	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	22.76	22.74	23.11	23.11	22.73	22.73	22.7	22.7	22.67	23.73	TIME	23.64	23.64	23.72	23.72	23.39	23.64	23.67	23.67	23.67	23.66	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	3.02	4.31	8.48	7.42	7.08	7.62	6.44	3.87	1.71	0.12	MAX VEL	2.98	4.15	8.48	7.29	6.98	7.48	6.38	3.83	1.72	0.31	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	21.04	23.65	18.86	31.5	23.46	21.34	19.71	15.03	7.78	0.25	DEPTH	21.36	22.27	18.86	31.26	23.85	21.81	20.1	15.28	8.31	0.73	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	12.12	9.13	1.99	11.58	12.02	12.03	12.74	13.68	21.69	23.81	TIME	12.17	8.49	1.99	11.17	12.04	12.05	12.6	13.02	23.9	23.72	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	881	882	883	884	885	886	887	888	889	890	NODE	881	882	883	884	885	886	887	888	889	890	NODE	881	882	883	884	885	886	887	888	889	890
ELEVATION	197.6	197.79	198.33	197.08	195.89	194.4	193.59	192.9	192.14	190.84	ELEVATION	197.6	197.79	198.33	197.09	195.94	194.87	194.2	193.49	192.69	191.21	ELEVATION	0.00	0.00	0.00	-0.01	-0.05	-0.47	-0.61	-0.59	-0.55	-0.37
MAX DEPTH	0	0	0	0	0.05	0.42	1.34	2.44	4.74	13.94	MAX DEPTH	0	0	0	0.01	0.1	0.89	1.95	3.03	5.29	14.31	MAX DEPTH	0.00	0.00	0.00	-0.01	-0.05	-0.47	-0.61	-0.59	-0.55	-0.37
VELOCITY	0	0	0	0	0	0.33	0.91	1.96	4.45	3.82	VELOCITY	0	0	0	0	0.06	0.76	1.29	2.52	5.12	4.8	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0	0	0	0	24	23.14	23.9	22.51	22.5	23.8	TIME	0	0	0	24	22.44	23.81	23.84	23.75	23.77	23.93	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0	0	0	0	0	0.33	0.91	1.96	4.45	3.82	MAX VEL	0	0	0	0																	

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	961	962	963	964	965	966	967	968	969	970	NODE	961	962	963	964	965	966	967	968	969	970	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	201.9	201.9	201.89	201.88	201.71	201.51	201.31	201.11	200.91	200.59	ELEVATION	202.15	202.15	202.15	202.14	201.98	201.78	201.59	201.4	201.21	200.89	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	10.86	12.67	15.02	19.67	24.96	30.57	42.22	29.71	20.98	11.95	MAX DEPTH	11.11	12.92	15.28	19.93	25.23	30.84	42.5	30	21.28	12.25	MAX DEPTH	-0.25	-0.25	-0.26	-0.26	-0.27	-0.27	-0.28	-0.29	-0.30	-0.30
VELOCITY	0.47	0.71	1.22	2.9	4.45	5.7	8.14	4.12	3	3.78	VELOCITY	0.47	0.71	1.22	2.9	4.54	6.07	8.14	4.06	2.93	3.77	VELOCITY	-0.25	-0.25	-0.26	-0.26	-0.27	-0.27	-0.28	-0.29	-0.30	-0.30
TIME	20.77	22.12	23.46	22.74	22.74	23.11	23.11	23.11	23.11	23.11	TIME	21.98	22.35	23.28	23.28	23.25	23.25	23.25	23.25	23.25	23.39	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0.47	0.71	1.22	2.9	4.45	5.7	8.14	4.12	3	3.78	MAX VEL	0.47	0.71	1.22	2.9	4.54	6.07	8.14	4.06	2.93	3.77	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	5.14	12.66	15.01	18.85	17.17	29.71	21.74	28.74	19.57	11.79	DEPTH	5.14	10.3	15.25	19.12	18.58	22.65	21.74	21.59	19.3	11.74	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	8.77	22.74	17.74	12.03	7.75	12.03	3.21	11.97	11.6	14.16	TIME	8.76	10.67	16.38	12.06	8.4	7.74	3.21	7.74	11.18	12.72	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	971	972	973	974	975	976	977	978	979	980	NODE	971	972	973	974	975	976	977	978	979	980	NODE	971	972	973	974	975	976	977	978	979	980
ELEVATION	199.92	199.26	198.69	198.28	198.02	197.82	197.61	197.34	196.97	196.65	ELEVATION	200.24	199.58	199.01	198.59	198.3	198.08	197.84	197.55	197.15	196.77	ELEVATION	-0.32	-0.32	-0.32	-0.31	-0.28	-0.26	-0.23	-0.21	-0.18	-0.12
MAX DEPTH	7.21	5.7	4.21	3.76	3.46	3.58	2.95	2.33	0.92	0.38	MAX DEPTH	7.53	6.02	4.53	4.07	3.74	3.84	3.18	2.54	1.1	0.5	MAX DEPTH	-0.32	-0.32	-0.32	-0.31	-0.28	-0.26	-0.23	-0.21	-0.18	-0.12
VELOCITY	3.3	2.41	2.47	1.79	1.53	1.4	1.08	1.02	0.56	0.24	VELOCITY	3.32	2.44	2.47	1.99	1.71	1.57	1.23	1.12	0.64	0.44	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	23.11	22.74	23.07	23.07	23.08	23.11	23.13	23.15	23.19	23.34	TIME	23.39	23.64	23.67	23.65	23.69	23.7	23.71	23.77	23.85	20.92	TIME	-0.32	-0.32	-0.32	-0.31	-0.28	-0.26	-0.23	-0.21	-0.18	-0.12
MAX VEL	3.3	2.41	2.47	1.79	1.53	1.4	1.08	1.02	0.56	0.24	MAX VEL	3.32	2.44	2.47	1.99	1.71	1.57	1.23	1.12	0.64	0.44	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	7.21	5.61	4.2	3.76	3.46	3.58	2.94	2.33	0.92	0.38	DEPTH	7.53	6.02	4.53	4.07	3.74	3.84	3.18	2.54	1.1	0.5	DEPTH	-0.32	-0.32	-0.32	-0.31	-0.28	-0.26	-0.23	-0.21	-0.18	-0.12
TIME	21.29	14.92	21.82	22.67	22.76	22.76	22.77	23.11	23.26	23.34	TIME	23.39	23.4	23.65	23.68	23.68	23.7	23.71	23.72	23.83	19.94	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	981	982	983	984	985	986	987	988	989	990	NODE	981	982	983	984	985	986	987	988	989	990	NODE	981	982	983	984	985	986	987	988	989	990
ELEVATION	196.01	195.34	194.6	193.88	192.72	191.2	190.41	190.32	185.88	185.63	ELEVATION	196.15	195.49	194.7	194.03	192.93	191.5	190.69	190.58	185.76	185.53	ELEVATION	-0.14	-0.15	-0.10	-0.15	-0.21	-0.30	-0.28	-0.26	0.12	0.10
MAX DEPTH	0.22	0.22	0.57	0.83	0.81	1.13	5.73	13.85	33	21	MAX DEPTH	0.36	0.37	0.67	0.98	1.02	1.43	6.01	14.11	32.88	20.9	MAX DEPTH	-0.14	-0.15	-0.10	-0.15	-0.21	-0.30	-0.28	-0.26	0.12	0.10
VELOCITY	0.2	0.21	0.76	1.16	1.32	1.24	3.6	6.65	4.76	3.69	VELOCITY	0.27	0.31	0.76	1.3	1.54	1.53	3.51	6.18	4.58	3.77	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	21.21	23.46	23.38	23.9	23.92	23.82	23.8	23.8	23.23	20.5	TIME	23.99	23.99	24	24	23.92	23.86	23.94	23.85	23.83	23.87	TIME	-0.14	-0.15	-0.10	-0.15	-0.21	-0.30	-0.28	-0.26	0.12	0.10
MAX VEL	0.2	0.21	0.76	1.16	1.32	1.24	3.6	6.65	4.76	3.69	MAX VEL	0.27	0.31	0.76	1.3	1.54	1.53	3.51	6.18	4.58	3.77	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.22	0.22	0.57	0.83	0.81	1.12	5.73	12.27	32.89	20.31	DEPTH	0.36	0.37	0.67	0.98	1.02	1.43	6.01	12.12	32.83	17.67	DEPTH	-0.14	-0.15	-0.10	-0.15	-0.21	-0.30	-0.28	-0.26	0.12	0.10
TIME	21.21	21.21	23.38	23.9	23.95	23.76	23.8	12.49	22.99	13.38	TIME	23.97	23.93	23.96	24	23.92	23.97	23.87	12.37	21.81	10.51	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	991	992	993	994	995	996	997	998	999	1000	NODE	991	992	993	994	995	996	997	998	999	1000	NODE	991	992	993	994	995	996	997	998	999	1000
ELEVATION	185.2	192.46	192.92	192.17	189.62	200.28	204.85	198.23	191.12	190.81	ELEVATION	185.31	192.46	192.92	192.17	189.62	200.28	204.85	198.23	191.12	190.81	ELEVATION	-0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	1.13	0	0	0	0	0	0	0	0	0	MAX DEPTH	1.24	0	0	0	0	0	0	0	0	0	MAX DEPTH	-0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0.6	0	0	0	0	0	0	0	0	0	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	23.93	0	0	0	0	0	0	0	0	0	TIME	23.95	0	0	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0.6	0	0	0	0	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	1.24	0	0	0	0	0	0	0	0	0	DEPTH	-0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0	0	0	0	0	0	0	0	0	0	TIME	23.97	0	0	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	NODE	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	194.92	194.34	193.64	192.52	191.41	189.5	166.85	185.58	185.35	184.95	ELEVATION	195.05	194.44	193.71	192.58	191.49	189.87	166.85	185.5	185.21	184.98	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	2.08	1.24	0.5	0.5	0.26	10.93	0	30.34	13.15	5	MAX DEPTH	2.21	1.34	0.57	0.56	0.34	11.3	0	30.26	13.01	5.03	MAX DEPTH	-0.13	-0.10	-0.07	-0.06	-0.08	-0.37	0.00	0.08	0.14	-0.03
VELOCITY	1.37	1.16	0.82	0.83	0.38	4.74	0	3.98	4.75	2.31	VELOCITY	1.5	1.26	0.87	0.85	0.41	4.36	0	4.13	3.45	1.48	VELOCITY	-0.13	-0.10	-0.07	-0.06	-0.08	-0.37	0.00	0.08	0.14	-0.03
TIME	23.28	23.29	18.69	16.17	23.91	23.81	0	21.77	23.91	23.92	TIME	23.99	24	23.94	23.95	23.94	24	0	24	23.78	23.82	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	1.37	1.16	0.82	0.84	0.38	4.74	0	3.98	4.75	2.31	MAX VEL	1.5	1.26	0.87	0.85	0.41	4.36	0	4.13	3.45	1.48	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	2.08	1.24	0.5	0.5	0.26	8.97	0	30.34	12.78	4.99	DEPTH	2.21	1.34	0.57	0.5	0.34	9.72	0	30.26	12.91	4.96	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	23.15	23.29	20.73	18.42	22.9	12.49	0	23.05	14.07	23.55	TIME	23.99	23.91	23.94	14.21	23.95	12.91	0	22.65	15.96	16.5	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	NODE	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	NODE	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060
ELEVATION	190.08	189.87	189.35	188.16	186.87	186	201.92	201.92	201.93	201.94	ELEVATION	190.08	189.87	189.35	188.16	186.87	186	202.17	202.18	202.19	202.19	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	-0.25	-0.26	-0.26	-0.25
MAX DEPTH	0	0	0	0	0	0	39.85	40.22	41.01	46.18	MAX DEPTH	0	0	0	0	0	0	40.1	40.48	41.27	46.43	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	-0.25	-0.26	-0.26	-0.25
VELOCITY	0	0	0	0	0	0	1.25	3.83	4.06	4.23	VELOCITY	0	0	0	0	0	0	1.25	3.83	4.06	4.71	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0	0	0	0	0	0	20.79	21.11	22.84	22.74	TIME	0	0	0	0	0	0	21.03	22.24	23.06	22.45	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0	0	0	0	0	0	1.25	3.83	4.06	4.23	MAX VEL	0	0	0	0	0	0	1.25	3.83	4.06	4.71	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0	0	0	0	0	0	8.63	5.46	5.83	9.94	DEPTH	0	0	0	0	0	0	8.63	5.46	5.83	37.69	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0	0	0	0	0	0	1.01	0.7	0.6	0.48	TIME	0	0	0	0	0	0	1.01	0.7	0.6	7.4	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	NODE	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	NODE	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070
ELEVATION	201.92	201.78	201.47	201.2	200.93	200.53	200.1	199.58	199.01	198.28	ELEVATION	202.18	202.04	201.74	201.48	201.21	200.81	200.36	199.83	199.27	198.59	ELEVATION	-0.26	-0.26	-0.27	-0.28	-0.28	-0.28	-0.26	-0.25	-0.26	-0.31
MAX DEPTH	33.44	14.65	7.47	6.43	5.25	4.44	3.29	2	1.68	3	MAX DEPTH	33.7	14.91	7.74	6.71	5.53	4.72	3.55	2.25	1.94	3.31	MAX DEPTH	-0.26	-0.26	-0.27	-0.28	-0.28	-0.28	-0.26	-0.25	-0.26	-0.31
VELOCITY	5.4	2.53	2.33	2.32	2.42	2.16	1.48	1.39	1.67	1.62	VELOCITY	5.38	2.51	2.36	2.38	2.53	2.23	1.56	1.56	1.85	1.8	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	21.71	22.94	22.77	22.82	22.73	22.73	22.78	22.78	22.79	23.08	TIME	23.16	23.25	23.26	23.39	23.39	23.4	23.65	23.67	23.68	23.7	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	5.4	2.53	2.33	2.32	2.42	2.16	1.48	1.39	1.67	1.62	MAX VEL	5.38	2.51	2.36	2.38	2.53	2.23	1.56	1.56	1.85	1.8	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	30.7	13.35	7.46	6.43	5.25	4.44	3.29	2	1.68	3	DEPTH	26.59	13.53	7.73	6.71	5.53	4.72	3.55	2.25	1.94	3.31	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	10.47	11.6	19.55	23.85	22.82	22.83	22.78	22.78	22.79	22.77	TIME	8.17	11.55	19.92	23.25	22.12	23.4	23.4	23.67	23.68	23.68	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	NODE	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	NODE	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080
ELEVATION	197.99	197.73	197.48	197.25	196.94	196.51	195.76	195.31	194.93	194.36	ELEVATION	198.27	197.98	197.7	197.44	197.11	196.68	195.93	195.47	195.06	194.48	ELEVATION	-0.28	-0.25	-0.22	-0.19	-0.17	-0.17	-0.17	-0.16	-0.13	-0.12
MAX DEPTH	3.49	3.4	2.88	2.44	1.98	1.63	2.51	4.08	3.94	4.04	MAX DEPTH	3.77	3.65	3.1	2.63	2.15	1.8	2.68	4.24	4.07	4.16	MAX DEPTH	-0.28	-0.25	-0.22	-0.19	-0.17	-0.17	-0.17	-0.16	-0.13	-0.12
VELOCITY	1.69	1.73	1.42	1.35	1.36	1.67	1.91	2.61	3.29	3.54	VELOCITY	1.88	1.93	1.6	1.52	1.48	1.81	2.09	2.75	3.4	3.68	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	23.11	23.1	23.11	23.16	23.16	23.2	23.23	23.3	23.34	23.35	TIME	23.7	23.71	23.71	23.77	23.79	23.86	23.85	23.93	23.96	23.97	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	1.69	1.73	1.42	1.35	1.36	1.67	1.91	2.61	3.29	3.54	MAX VEL	1.88	1.93	1.6	1.52	1.48	1.81	2.09	2.75	3.4	3.68	MAX VEL	0.00	0.00	0.00	0.00	0					

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)

PROP										
NODE	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130
ELEVATION	197.42	197.24	196.95	196.58	196.08	195.33	194.85	194.23	193.33	192.02
MAX DEPTH	3.13	3.5	2.14	1.16	0.62	0.77	1.73	1.16	1.07	0.81
VELOCITY	2.29	2.79	2.33	0.92	0.76	0.72	1.35	1.31	1.38	1.84
TIME	23.13	23.13	23.16	23.2	23.26	23.36	23.31	23.31	23.36	23.93
MAX VEL	2.29	2.79	2.33	0.92	0.76	0.72	1.35	1.31	1.38	1.84
DEPTH	3.13	3.5	2.14	1.16	0.62	0.77	1.73	1.16	1.07	0.81
TIME	23.13	23.13	23.16	23.21	23.29	23.2	23.31	23.31	23.36	20.58
NODE	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140
ELEVATION	189.07	188.96	188.92	188.88	184.71	184.68	184.55	184.44	184.34	184.18
MAX DEPTH	3.42	20.76	15.64	18.88	33	17.97	14.14	11.62	9.33	6.77
VELOCITY	1.45	2.11	1.78	1.83	2.22	2.51	1.82	1.34	1.36	1.48
TIME	23.82	23.81	23.82	23.82	23.92	23.92	23.92	23.92	23.92	23.95
MAX VEL	1.45	2.11	1.78	1.83	2.22	2.51	1.82	1.34	1.36	1.48
DEPTH	2.28	15.54	14.49	18.87	28.82	17.97	9.91	11.62	9.33	6.77
TIME	13.17	10.29	13.32	23.72	9.44	22.68	9.45	20.54	21.03	23.88
NODE	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150
ELEVATION	183.95	183.67	183.43	188.08	190.56	189.94	188.67	188.09	187.87	187.32
MAX DEPTH	5.59	3.91	0.21	0	0	0	0	0	0	0
VELOCITY	1.32	1.42	0.18	0	0	0	0	0	0	0
TIME	23.95	23.95	24	0	0	0	0	0	0	0
MAX VEL	1.32	1.42	0.18	0	0	0	0	0	0	0
DEPTH	5.59	3.91	0.21	0	0	0	0	0	0	0
TIME	23.95	23.96	22.46	0	0	0	0	0	0	0
NODE	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160
ELEVATION	187.38	184.18	201.91	201.92	201.92	201.91	201.9	201.8	201.53	201.2
MAX DEPTH	0	0	36.73	6.52	1	3.41	9.29	4.29	1.75	2.34
VELOCITY	0	0	0.85	0.27	0.13	0.45	0.85	0.97	0.7	0.93
TIME	0	0	23.76	23.76	23.56	23.63	22.94	22.75	22.75	22.77
MAX VEL	0	0	0.85	0.27	0.13	0.45	0.85	0.97	0.71	0.93
DEPTH	0	0	22.68	3.25	0.85	2.94	9.29	4.29	1.75	2.34
TIME	0	0	5.11	10.17	14.16	12.59	19.54	22.74	22.79	22.77
NODE	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170
ELEVATION	200.85	200.1	199.48	199.05	198.59	198.19	198.41	198.58	196.09	195.5
MAX DEPTH	1.8	2.57	3.37	3.01	2.82	0.77	0	0	0	1.1
VELOCITY	1.21	2.64	3.71	3.2	0.64	0.06	0	0	0	1.4
TIME	22.77	22.79	22.79	22.9	14.65	23.2	0	0	0	23.19
MAX VEL	1.21	2.64	3.71	3.2	0.64	0.06	0	0	0	1.4
DEPTH	1.8	2.57	3.37	3.01	2.82	0.77	0	0	0	1.1
TIME	22.77	22.78	22.78	22.9	14.65	23.22	0	0	0	23.19
NODE	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180
ELEVATION	195.07	194.59	194.73	194.28	193.86	193.41	192.92	190.92	189.01	188.98
MAX DEPTH	1.42	0.23	0	0	0.19	0.55	0.68	0.89	7.51	9.86
VELOCITY	2.08	0.35	0	0	0.11	0.58	1.33	1.61	1.73	3.25
TIME	23.19	23.89	0	0	21.48	14.69	23.41	23.93	23.82	23.81
MAX VEL	2.08	0.35	0	0	0.11	0.7	1.33	1.61	1.73	3.25
DEPTH	1.42	0.23	0	0	0.19	0.55	0.68	0.76	2.03	3.68
TIME	23.2	23.88	0	0	21.48	14.69	23.36	13.94	10.46	9.97
NODE	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190
ELEVATION	188.91	188.84	188.81	184.55	184.44	184.42	184.32	184.18	183.93	183.56
MAX DEPTH	4.53	13.16	26.62	28.52	12.41	13.51	12.62	10.37	8.47	8.44
VELOCITY	1.02	1.67	1.91	1.6	1.28	1.68	1.7	2	2.41	2.94
TIME	23.81	23.82	23.82	23.92	23.93	23.92	23.95	23.93	23.95	23.95
MAX VEL	1.02	1.67	1.91	1.6	1.28	1.68	1.7	2	2.41	2.94
DEPTH	4.53	13.15	26.59	28.5	7.81	13.51	12.61	10.37	8.47	8.44
TIME	23.83	22.47	23.27	20.13	9.3	20.97	19.36	21.04	23.9	23.92

EXISTING CONDITION (NO FENCE)

EXIS										
NODE	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130
ELEVATION	197.62	197.41	197.11	196.73	196.21	195.48	194.99	194.33	193.41	192.11
MAX DEPTH	3.33	3.67	2.3	1.31	0.75	0.92	1.87	1.26	1.15	0.9
VELOCITY	2.63	3.03	2.6	1.01	0.87	0.84	1.49	1.42	1.47	1.9
TIME	23.77	23.77	23.8	23.86	23.95	23.98	23.93	23.93	23.98	23.91
MAX VEL	2.63	3.03	2.6	1.01	0.87	0.84	1.49	1.42	1.47	1.9
DEPTH	3.33	3.67	2.3	1.31	0.75	0.92	1.87	1.26	1.15	0.84
TIME	23.71	23.77	23.74	23.78	23.91	23.95	23.93	23.94	23.98	14.65
NODE	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140
ELEVATION	189.5	189.4	189.37	189.33	184.86	184.8	184.68	184.55	184.42	184.25
MAX DEPTH	3.85	21.2	16.09	19.33	33.15	18.09	14.27	11.73	9.41	6.84
VELOCITY	1.46	2.14	1.79	1.85	1.74	1.98	1.79	1.55	1.49	1.54
TIME	23.91	23.9	23.9	23.9	23.88	23.83	23.83	23.68	23.84	23.01
MAX VEL	1.46	2.14	1.79	1.85	1.74	1.98	1.79	1.55	1.49	1.54
DEPTH	2.41	15.2	15.1	16.67	33.15	18.09	14.27	11.73	9.4	6.83
TIME	12.97	10.03	13.5	12.21	21.45	22.13	22.77	20.66	21.65	23.77
NODE	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150
ELEVATION	184	183.72	183.46	188.08	190.56	189.94	188.67	188.09	187.87	187.32
MAX DEPTH	5.64	3.96	0.24	0	0	0	0	0	0	0
VELOCITY	1.35	1.44	0.2	0	0	0	0	0	0	0
TIME	23.71	23.71	23.76	0	0	0	0	0	0	0
MAX VEL	1.35	1.44	0.2	0	0	0	0	0	0	0
DEPTH	5.64	3.96	0.24	0	0	0	0	0	0	0
TIME	23.88	23.17	23.78	0	0	0	0	0	0	0
NODE	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160
ELEVATION	187.38	184.18	202.17	202.17	202.17	202.17	202.16	202.06	201.79	201.47
MAX DEPTH	0	0	36.99	6.77	1.25	3.67	9.55	4.55	2.01	2.61
VELOCITY	0	0	0.85	0.43	0.21	0.49	0.89	1	0.79	1.05
TIME	0	0	23.92	23.92	23.81	22.64	22.64	23.64	23.65	23.66
MAX VEL	0	0	0.85	0.43	0.21	0.49	0.89	1	0.79	1.05
DEPTH	0	0	22.69	4.19	0.94	3.27	9.55	4.55	2.01	2.61
TIME	0	0	5.11	10.69	13.19	12.82	22.45	21.05	23.65	23.66
NODE	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170
ELEVATION	201.11	200.33	199.69	199.27	198.77	198.36	198.41	198.58	196.09	195.77
MAX DEPTH	2.06	2.8	3.58	3.23	3	0.94	0	0	0	1.37
VELOCITY	1.39	2.98	3.93	3.46	0.72	0.06	0	0	0	1.69
TIME	23.67	23.67	23.68	23.5	23.72	23.76	0	0	0	23.84
MAX VEL	1.39	2.98	3.93	3.46	0.72	0.06	0	0	0	1.69
DEPTH	2.06	2.8	3.58	3.23	3	0.79	0	0	0	1.37
TIME	23.66	23.67	23.67	23.5	23.71	13.74	0	0	0	23.78
NODE	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180
ELEVATION	195.27	194.81	194.74	194.28	193.87	193.47	192.99	191.06	189.46	189.42
MAX DEPTH	1.62	0.45	0.01	0	0.2	0.61	0.75	1.03	7.96	10.3
VELOCITY	2.35	0.56	0	0	0.14	0.75	1.41	1.66	1.76	3.27
TIME	23.8	23.97	24	0	15.29	23.99	23.99	24	23.9	23.9
MAX VEL	2.35	0.56	0	0	0.18	0.75	1.41	1.66	1.76	3.27
DEPTH	1.62	0.45	0	0	0.2	0.61	0.75	0.8	2.07	3.71
TIME	23.84	23.96	0	0	21.01	23.99	23.77	13.47	10.42	9.94
NODE	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190
ELEVATION	189.36	189.31	189.28	184.71	184.57	184.49	184.39	184.23	183.99	183.6
MAX DEPTH	4.98	13.63	27.09	28.68	12.54	13.58	12.69	10.42	8.53	8.48
VELOCITY	1.03	2.08	2.38	1.88	1.63	1.71	1.84	2.02	2.48	2.94
TIME	23.87	23.9	23.9	23.83	23.68	23.68	23.83	23.71	23.7	23.66
MAX VEL	1.03	2.08	2.38	1.88	1.63	1.71	1.84	2.02	2.48	2.94
DEPTH	4.33	11.29	26.46	28.68	9.29	13.58	12.68	10.42	8.53	8.48
TIME	14.06	12.45	14.13	22.8	10.52	21.68	20.99	23.03	23.14	23.47

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)											
PROP											EXIS											DIFF											
NODE	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	NODE	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	182.97	182.18	181.2	187.61	188.28	186.83	186.37	185.63	184.43	166.68	ELEVATION	183.01	182.23	181.25	187.61	188.28	186.83	186.37	185.63	184.43	166.73	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	7.82	6.4	1.24	0	0	0	0	0	0	6.76	MAX DEPTH	7.86	6.45	1.29	0	0	0	0	0	0	6.81	MAX DEPTH	-0.04	-0.05	-0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.05
VELOCITY	3.04	3.3	1.28	0	0	0	0	0	0	0	VELOCITY	3.04	3.31	1.32	0	0	0	0	0	0	0	VELOCITY	-0.04	-0.05	-0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.05
TIME	23.95	23.95	24	0	0	0	0	0	0	24	TIME	23.72	23.72	23.77	0	0	0	0	0	0	23.82	TIME											
MAX VEL	3.04	3.3	1.28	0	0	0	0	0	0	0	MAX VEL	3.04	3.31	1.32	0	0	0	0	0	0	0	MAX VEL											
DEPTH	7.82	6.4	1.24	0	0	0	0	0	0	0	DEPTH	7.86	6.45	1.29	0	0	0	0	0	0	0	DEPTH											
TIME	23.92	23.95	24	0	0	0	0	0	0	0	TIME	23.66	23.72	23.77	0	0	0	0	0	0	0	TIME											
NODE	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	NODE	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	201.91	201.91	201.93	201.91	201.9	201.94	201.58	201.84	201.24	198.97	ELEVATION	202.16	202.17	202.16	202.16	202.15	202.06	201.83	201.84	201.24	198.97	ELEVATION	-0.25	-0.26	-0.23	-0.25	-0.25	-0.12	-0.25	0.00	0.00	0.00	0.00
MAX DEPTH	15.79	0.55	0	0.69	0.71	0	0.2	0	0	0	MAX DEPTH	16.04	0.81	0.23	0.94	0.96	0.12	0.45	0	0	0	MAX DEPTH	-0.25	-0.26	-0.23	-0.25	-0.25	-0.12	-0.25	0.00	0.00	0.00	0.00
VELOCITY	0.27	0.03	0	0.09	0.16	0	0.1	0	0	0	VELOCITY	0.28	0.05	0.02	0.13	0.21	0.04	0.16	0	0	0	VELOCITY											
TIME	23.96	23.58	0	22.85	22.74	0	23.84	0	0	0	TIME	23.92	24	23.89	23.79	22.64	24	23.92	0	0	0	TIME											
MAX VEL	0.27	0.03	0	0.09	0.16	0	0.1	0	0	0	MAX VEL	0.28	0.05	0.02	0.13	0.21	0.04	0.16	0	0	0	MAX VEL											
DEPTH	10.24	0.55	0	0.68	0.71	0	0.2	0	0	0	DEPTH	10.35	0.79	0.23	0.92	0.96	0.12	0.45	0	0	0	DEPTH											
TIME	8.87	23.18	0	17.59	22.8	0	23.91	0	0	0	TIME	8.91	17.8	21.11	16.83	22.47	24	23.98	0	0	0	TIME											
NODE	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	NODE	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	198.59	198.15	196.89	196.29	195.98	196.27	196.04	195.11	193.41	192.51	ELEVATION	198.88	198.33	197.07	196.45	196.06	196.27	196.04	195.22	193.65	192.78	ELEVATION	-0.29	-0.18	-0.18	-0.16	-0.08	0.00	0.00	-0.11	-0.24	-0.27	-0.27
MAX DEPTH	1.75	2.56	2.56	1.7	0.5	0	0	0.19	1.27	1.18	MAX DEPTH	2.04	2.74	2.74	1.86	0.58	0	0.3	1.51	1.45		MAX DEPTH	-0.29	-0.18	-0.18	-0.16	-0.08	0.00	0.00	-0.11	-0.24	-0.27	-0.27
VELOCITY	1.01	3.81	4.28	3.81	1.97	0	0	0.14	1.79	1.96	VELOCITY	1.29	3.81	4.48	4	2.3	0	0	0.37	2.03	2.26	VELOCITY											
TIME	23.17	23.17	23.17	23.18	18.02	0	0	23.9	23.22	23.26	TIME	23.71	23.51	23.7	23.72	23.79	0	0	23.97	23.86	23.92	TIME											
MAX VEL	1.01	3.81	4.28	3.81	1.98	0	0	0.14	1.79	1.96	MAX VEL	1.29	3.81	4.48	4	2.3	0	0	0.37	2.03	2.26	MAX VEL											
DEPTH	1.75	2.4	2.56	1.67	0.5	0	0	0.19	1.27	1.18	DEPTH	2.04	2.4	2.74	1.86	0.58	0	0	0.3	1.51	1.45	DEPTH											
TIME	23.18	14.65	22.9	14.65	23.17	0	0	23.98	23.24	23.26	TIME	23.74	13.08	23.5	23.69	23.73	0	0	16.1	23.86	23.86	TIME											
NODE	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	NODE	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	194.03	193.74	192.87	192.59	192.49	190.87	189.07	189.01	188.94	188.79	ELEVATION	194.05	193.78	192.92	192.63	192.49	190.91	189.52	189.46	189.39	189.28	ELEVATION	-0.02	-0.04	-0.05	-0.04	0.00	-0.04	-0.45	-0.45	-0.45	-0.49	-0.49
MAX DEPTH	0.1	0.06	0.21	0.5	0.2	0.2	12.66	1.37	0.86	5.41	MAX DEPTH	0.12	0.1	0.26	0.54	0.2	0.24	13.11	1.82	1.31	5.9	MAX DEPTH	-0.02	-0.04	-0.05	-0.04	0.00	-0.04	-0.45	-0.45	-0.45	-0.49	-0.49
VELOCITY	0.06	0	0.24	0.91	0.37	0.3	3.21	0.38	0.39	1.52	VELOCITY	0.15	0.04	0.27	1.01	0.35	0.31	3.14	0.47	0.46	1.56	VELOCITY											
TIME	20.22	24	21.66	19.49	21.66	23.38	23.98	23.93	23.93	23.82	TIME	18.75	21.36	24	24	13.56	24	23.88	24	23.91	23.91	TIME											
MAX VEL	0.06	0	0.24	0.91	0.37	0.3	3.21	0.38	0.39	1.52	MAX VEL	0.15	0.04	0.27	1.01	0.42	0.31	3.14	0.47	0.46	1.56	MAX VEL											
DEPTH	0.1	0	0.21	0.5	0.2	0.2	1.99	1.37	0.86	5.41	DEPTH	0.12	0.1	0.26	0.5	0.2	0.2	1.9	1.82	1.31	5.32	DEPTH											
TIME	19.96	0	21.61	19.39	14.57	20.98	9.27	23.26	23.95	23.81	TIME	18.43	21.13	23.99	13.88	13.56	14.4	9.19	23.59	23.87	14.29	TIME											
NODE	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	NODE	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	188.77	184.44	184.4	184.38	184.29	184.17	183.93	183.51	182.75	181.79	ELEVATION	189.26	184.53	184.52	184.45	184.35	184.22	184	183.53	182.8	181.85	ELEVATION	-0.49	-0.09	-0.12	-0.07	-0.06	-0.05	-0.07	-0.02	-0.05	-0.06	-0.06
MAX DEPTH	19.13	34.81	14.43	12.58	14.21	14.26	12.53	8.62	6.29	5.51	MAX DEPTH	19.62	34.9	14.55	12.65	14.27	14.31	12.6	8.64	6.34	5.57	MAX DEPTH	-0.49	-0.09	-0.12	-0.07	-0.06	-0.05	-0.07	-0.02	-0.05	-0.06	-0.06
VELOCITY	2.02	2.3	1.17	1.63	1.9	2.54	2.66	3.28	3.04	4.04	VELOCITY	2.13	2.7	1.75	1.72	2.06	2.52	2.81	3.17	3.04	4.07	VELOCITY											
TIME	23.82	22.01	23.94	23.93	23.93	23.93	23.95	24	23.95	23.96	TIME	23.9	23.93																				

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (= PROPOSED - EXISTING)											
PROP										EXIS										DIFF											
NODE	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	NODE	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	192.6	190.84	189.16	189.12	189.12	189.08	188.98	188.8	188.38	162.53	ELEVATION	192.6	190.9	189.64	189.59	189.58	189.53	189.42	189.27	188.89	162.53	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0.1	0.23	2.65	9.01	18.21	2.44	1.25	0.84	5.84	0	MAX DEPTH	0.1	0.29	3.13	9.48	18.67	2.89	1.69	1.31	6.35	0	MAX DEPTH	0.00	-0.06	-0.48	-0.47	-0.46	-0.45	-0.44	-0.47	-0.51
VELOCITY	0.04	0.33	0.63	1.15	2.23	0.41	0.35	0.45	3.69	0	VELOCITY	0.07	0.32	0.67	1.07	2.18	0.53	0.44	0.61	3.97	0	VELOCITY	0.00	-0.06	-0.48	-0.47	-0.46	-0.45	-0.44	-0.47	-0.51
TIME	21.27	24	23.96	23.98	23.98	23.93	23.94	23.93	23.92	0	TIME	23.27	24	23.88	23.88	23.97	23.93	23.93	23.83	23.92	0	TIME									
MAX VEL	0.04	0.33	0.63	1.15	2.23	0.41	0.35	0.45	3.69	0	MAX VEL	0.07	0.32	0.67	1.07	2.18	0.53	0.44	0.61	3.97	0	MAX VEL									
DEPTH	0.1	0.2	2.57	8.09	7.25	2.44	1.25	0.84	5.84	0	DEPTH	0.1	0.29	3.13	8.12	7.21	2.89	1.69	1.31	6.35	0	DEPTH									
TIME	19.54	14.8	16.63	13.62	9.64	22.81	23.95	23.95	23.82	0	TIME	21.29	23.47	23.08	13.27	9.59	23.02	23.03	23.83	23.92	0	TIME									
NODE	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	NODE	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	184.4	184.4	184.27	184.16	183.93	183.52	182.6	181.03	178.49	176.74	ELEVATION	184.51	184.43	184.34	184.22	184.02	183.52	182.68	181.13	178.6	176.65	ELEVATION	-0.11	-0.03	-0.07	-0.06	-0.09	0.00	-0.08	-0.10	-0.11
MAX DEPTH	27.22	9.98	12.55	17.12	15.43	14.06	12.18	11.66	11.47	12.75	MAX DEPTH	27.33	10.01	12.62	17.18	15.52	14.06	12.26	11.76	11.58	12.66	MAX DEPTH	-0.11	-0.03	-0.07	-0.06	-0.09	0.00	-0.08	-0.10	-0.11
VELOCITY	1.99	1.62	1.8	2.85	3.58	5.91	7.48	7.9	7.01	6.46	VELOCITY	2.41	1.38	1.9	2.72	4.03	5.63	7.43	7.95	7.25	6.24	VELOCITY									
TIME	23.68	23.94	23.91	23.93	23.93	23.93	23.93	23.96	23.96	23.97	TIME	23.93	23.44	23.32	23.89	23.98	23.99	23.77	23.77	23.77	23.78	TIME									
MAX VEL	1.99	1.62	1.8	2.85	3.58	5.91	7.48	7.9	7.01	6.46	MAX VEL	2.41	1.38	1.9	2.72	4.03	5.63	7.43	7.95	7.25	6.24	MAX VEL									
DEPTH	22.91	9.97	12.55	17.11	15.42	14.06	12.18	11.66	11.47	12.75	DEPTH	24.03	10.01	12.61	17.17	15.52	14.05	12.26	11.76	11.58	12.66	DEPTH									
TIME	9.44	20.74	23.78	21.08	23.84	23.9	22.89	23.93	23.95	23.96	TIME	10.52	21.69	19.93	21.65	22.1	20.75	23.32	23.32	23.78	23.79	TIME									
NODE	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	NODE	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	175.33	174.03	172.47	170.13	167.02	165.69	197.47	202.29	203.02	203.18	ELEVATION	175.4	174.09	172.51	170.17	167.07	165.73	197.47	202.29	203.02	203.18	ELEVATION	-0.07	-0.06	-0.04	-0.04	-0.05	-0.04	0.00	0.00	0.00
MAX DEPTH	11.25	10.81	10.62	7.93	5.21	5.77	0	0	0	0	MAX DEPTH	11.32	10.87	10.66	7.97	5.26	5.81	0	0	0	0	MAX DEPTH	-0.07	-0.06	-0.04	-0.04	-0.05	-0.04	0.00	0.00	0.00
VELOCITY	5.62	5.76	6.34	5.87	6.25	0	0	0	0	0	VELOCITY	5.64	5.83	6.35	5.9	6.16	0	0	0	0	0	VELOCITY									
TIME	23.97	23.97	23.98	23.99	23.99	23.99	0	0	0	0	TIME	23.79	23.79	23.8	23.81	23.83	23.82	0	0	0	0	TIME									
MAX VEL	5.62	5.76	6.34	5.87	6.25	0	0	0	0	0	MAX VEL	5.64	5.83	6.35	5.9	6.16	0	0	0	0	0	MAX VEL									
DEPTH	11.25	10.81	10.62	7.93	5.21	0	0	0	0	0	DEPTH	11.32	10.87	10.66	7.97	5.26	0	0	0	0	0	DEPTH									
TIME	23.96	23.27	23.28	23.98	24	0	0	0	0	0	TIME	23.79	23.58	23.67	23.8	23.82	0	0	0	0	0	TIME									
NODE	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	NODE	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	201.33	201.39	201.58	200.76	198.98	197.2	196.33	194.87	193.75	192.66	ELEVATION	201.33	201.39	201.58	200.76	198.98	197.23	196.36	195.01	193.96	192.92	ELEVATION	0.00	0.00	0.00	0.00	0.00	-0.03	-0.03	-0.14	-0.21
MAX DEPTH	0	0	0	0	0	0.1	0.2	0.55	1.47	1.81	MAX DEPTH	0	0	0	0	0	0.13	0.23	0.69	1.68	2.07	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	-0.03	-0.03	-0.14	-0.21
VELOCITY	0	0	0	0	0	0.07	0.25	0.86	1.83	1.99	VELOCITY	0	0	0	0	0	0.13	0.31	0.98	2	2.1	VELOCITY									
TIME	0	0	0	0	0	23.98	19.05	16.34	23.21	23.23	TIME	0	0	0	0	0	20.51	17.85	23.84	23.97	23.99	TIME									
MAX VEL	0	0	0	0	0	0.07	0.25	0.86	1.83	1.99	MAX VEL	0	0	0	0	0	0.13	0.31	0.98	2	2.1	MAX VEL									
DEPTH	0	0	0	0	0	0.1	0.2	0.55	1.47	1.81	DEPTH	0	0	0	0	0	0.13	0.23	0.69	1.68	2.07	DEPTH									
TIME	0	0	0	0	0	20.1	20.28	16.34	23.21	23.18	TIME	0	0	0	0	0	21.67	17.35	23.82	23.97	23.75	TIME									
NODE	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	NODE	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	191.75	191	190.71	190.49	190.31	190.13	189.83	189.45	189.29	189.23	ELEVATION	192.14	191.56	191.32	191.09	190.9	190.71	190.4	189.99	189.79	189.72	ELEVATION	-0.39	-0.56	-0.61	-0.60	-0.59	-0.58	-0.57	-0.54	-0.49
MAX DEPTH	2.49	4.6	7.14	7.11	7.32	7.56	6.97	7.71	6.57	10.53	MAX DEPTH	2.88	5.16	7.75	7.71	7.91	8.14	7.54	8.25	7.07	11.02	MAX DEPTH	-0.39	-0.56	-0.61	-0.60	-0.59	-0.58	-0.57	-0.54	-0.50
VELOCITY	2.58	3.09	2.44	2.66	2.52	2.99	3.09	1.84	1.17	1.36	VELOCITY	2.72	3.2	2.61	2.89	2.73	3.18	3.38	2.12	1.28	1.47	VELOCITY									
TIME	23.83	23.91	23.94	23.89	23.89	23.89	23.74	23.74	23.74	23.74	TIME	23.99	23.99	23.98	23.91	23.9	23.91	23.88	23.88	22.84	22.84	TIME									
MAX VEL	2.58	3.09	2.44	2.66	2.52	2.99	3.09	1.84	1.17	1.36	MAX VEL	2.72	3.2	2.61	2.89	2.73	3.18	3.38	2.12	1.28	1.47	MAX VEL									
DEPTH																															

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED

Segment O1
TABLE 1A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)										DIFFERENCE (= PROPOSED - EXISTING)											
PROP											EXIS										DIFF											
NODE	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	NODE	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	176.99	175.02	169.19	167.05	197.45	200.03	201.11	200.12	199.36	198.51	ELEVATION	177.26	175.2	169.43	167.29	197.45	200.03	201.11	200.12	199.36	198.51	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	5.64	1.52	3.69	3.85	0	0	0	0	0	0	MAX DEPTH	5.91	1.7	3.93	4.09	0	0	0	0	0	0	MAX DEPTH	-0.27	-0.18	-0.24	-0.24	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	2.93	2.48	3.32	0	0	0	0	0	0	0	VELOCITY	3.07	2.72	3.46	0	0	0	0	0	0	0	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	24	24	23.52	23.51	0	0	0	0	0	0	TIME	23.97	24	23.98	24	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	2.93	2.48	3.32	0	0	0	0	0	0	0	MAX VEL	3.07	2.72	3.46	0	0	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	5.64	1.52	3.69	0	0	0	0	0	0	0	DEPTH	5.91	1.7	3.93	0	0	0	0	0	0	0	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	24	24	24	0	0	0	0	0	0	0	TIME	23.97	24	23.98	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Segment O1

TABLE 1B: DEFLECTION CALCULATIONS

Floodplain C/S	Fplain Q (cfs)	Peak Flow		Fplain Q (cfs)	Proposed Cond Channel Q (cfs)	Total Q (cfs)	Impact in US		Impact in Mexico	
		Existing Cond Channel Q (cfs)	Total Q (cfs)				Q (cfs)	%	Q (cfs)	%
1	59034.74	180010 95	149040.22	60023.66	183016.47	151531.90	2491.68	1.67%		
2	44657.19	0	44657.19	44313.14	0	44313.14	-344.05	-0.77%		
3	106815 52	65618 02	139624.53	103833.63	67665	137666.13				
4	65958.13	147526 81	139721.54	63372.19	153152.95	139948.67			227.13	0.16%
5	8339.89	0	8339.89	6905 36	0	6905.36			-1434.53	-17.20%
6	5788.61	0	5788.61	4767 81	0	4767.81			-1020.80	-17.63%
7	37744.62	171250.19	123369.72	33671.7	186223.89	126783.65			3413.93	2.77%
8	6697.28	177568.14	95481 35	5988 39	181269.94	96623.36			1142.01	1.20%
9	16651.31	154226.11	93764 37	14591.44	155795.84	92489.36			-1275.00	-1.36%
10	11271.15	0	11271.15	10196.7	0	10196.70			-1074.45	-9.53%
11	7501.31	195061 36	105031.99	5785 26	196914.45	104242.49			-789.50	-0.75%
12	16883	147271.16	90518 58	14485.16	154951.91	91961.12			1442.54	1.59%
13	6283.83	0	6283.83	5480.42	0	5480.42				
14	21353.88	195707 89	119207.83	16043.48	198415.27	115251.12	-3956.71	-3.32%	-3956.71	-3.32%
15	28208.86	0	28208 86	31017.28	0	31017.28				
16	51518.34	166410.41	134723.55	53431.8	171936.17	139399.89	4676.34	3.47%	4676.34	3.47%
17	22526.77	147271.16	96162 35	22261.42	154951.91	99737.38	3575.02	3.72%		

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP	</																															

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

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Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	581	582	583	584	585	586	587	588	589	590	NODE	581	582	583	584	585	586	587	588	589	590	NODE	581	582	583	584	585	586	587	588	589	590
ELEVATION	161.94	164.01	165.29	166.82	166.22	163.61	164.39	163.99	163.99	163.99	ELEVATION	161.92	164.01	165.29	166.82	166.22	163.61	164.39	164	164	163.99	ELEVATION	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0.59	0	0	0	0	0.01	0	5.38	14.68	15.84	MAX DEPTH	0.57	0	0	0	0	0.01	0	5.39	14.69	15.84	MAX DEPTH	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
VELOCITY	0.03	0	0	0	0	0	0	0.59	1.26	1.38	VELOCITY	0.03	0	0	0	0	0	0	0.59	1.25	1.38	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	29.99	0	0	0	0	30	0	29.75	29.74	29.74	TIME	30	0	0	0	0	30	0	28.19	28.18	28.18	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0.03	0	0	0	0	0	0	0.59	1.26	1.38	MAX VEL	0.03	0	0	0	0	0	0	0.59	1.25	1.38	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.44	0	0	0	0	0	0	5.32	11.35	3.76	DEPTH	0.45	0	0	0	0	0	0	5.36	11.3	3.74	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	22.57	0	0	0	0	0	0	23.27	12.15	7.17	TIME	23.23	0	0	0	0	0	0	26	12.09	7.15	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	591	592	593	594	595	596	597	598	599	600	NODE	591	592	593	594	595	596	597	598	599	600	NODE	591	592	593	594	595	596	597	598	599	600
ELEVATION	163.98	163.98	163.97	163.99	152.63	167.85	167.79	167.77	167.73	167.7	ELEVATION	163.99	163.99	163.99	164.01	152.63	167.85	167.79	167.77	167.73	167.7	ELEVATION	-0.01	-0.01	-0.02	-0.02	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	15.99	15.78	12.19	10.09	0	21.85	21.75	25.91	17.41	16.31	MAX DEPTH	16	15.79	12.21	10.11	0	21.85	21.75	25.91	17.41	16.31	MAX DEPTH	-0.01	-0.01	-0.02	-0.02	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.53	1.53	1.12	1.22	0	1.42	2.4	2.18	1.88	1.9	VELOCITY	1.54	1.54	1.12	1.22	0	1.42	2.24	2.15	1.92	1.87	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	29.74	29.74	29.74	29.74	0	28.46	29.45	29.45	29.45	29.45	TIME	28.17	28.17	28.18	28.18	0	29.86	30	30	29.98	29.97	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	1.53	1.53	1.12	1.22	0	1.42	2.4	2.18	1.88	1.9	MAX VEL	1.54	1.54	1.12	1.22	0	1.42	2.24	2.15	1.92	1.87	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	3.74	3.56	9.25	5.38	0	1.7	14.53	13.55	14.25	8.96	DEPTH	3.78	3.61	9.24	4.4	0	1.7	14.9	22.57	14.03	12.93	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	7.07	7.06	12.48	10.84	0	3.44	9.24	6.44	12.16	9.26	TIME	7.08	7.08	12.45	9.86	0	3.44	9.54	11.99	11.99	12.01	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	601	602	603	604	605	606	607	608	609	610	NODE	601	602	603	604	605	606	607	608	609	610	NODE	601	602	603	604	605	606	607	608	609	610
ELEVATION	167.66	167.65	167.59	167.59	167.58	167.21	178.2	179.05	179.56	190.71	ELEVATION	167.66	167.63	167.62	167.6	167.59	167.21	178.2	179.05	179.56	190.71	ELEVATION	0.00	0.02	-0.03	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	14.83	14.98	11.1	1.73	2.43	0	0	0	0	0	MAX DEPTH	14.83	14.96	11.13	1.74	2.44	0	0	0	0	0	MAX DEPTH	0.00	0.02	-0.03	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.79	1.62	0.79	0.45	0.52	0	0	0	0	0	VELOCITY	1.68	1.62	1.54	0.5	0.55	0	0	0	0	0	VELOCITY	0.00	0.02	-0.03	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00
TIME	29.45	29.45	29.45	29.46	29.46	0	0	0	0	0	TIME	29.97	29.97	29.97	29.97	30	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	1.79	1.62	0.79	0.45	0.52	0	0	0	0	0	MAX VEL	1.68	1.62	1.54	0.5	0.55	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	7.48	11.71	11.08	1.69	2.4	0	0	0	0	0	DEPTH	11.59	11.69	9.07	1.71	2.41	0	0	0	0	0	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	9.27	12.16	25.16	25.17	25.17	0	0	0	0	0	TIME	12.13	12.13	13.37	28.38	28.39	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	621	622	623	624	625	626	627	628	629	630	NODE	621	622	623	624	625	626	627	628	629	630	NODE	621	622	623	624	625	626	627	628	629	630
ELEVATION	161.17	161.41	161.51	161.52	161.53	161.57	161.86	161.85	161.91	161.92	ELEVATION	161.16	161.4	161.49	161.51	161.52	161.56	161.86	161.84	161.9	161.91	ELEVATION	0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.01	0.01
MAX DEPTH	0.06	0.03	0.84	1.5	2.06	1.13	0	0.35	1.29	1.74	MAX DEPTH	0.05	0.02	0.82	1.49	2.05	1.12	0	0.34	1.28	1.73	MAX DEPTH	0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.01	0.01
VELOCITY	0	0	0.12	0.25	0.27	0.18	0	0.15	0.24	0.26	VELOCITY	0	0	0.12	0.24	0.27	0.18	0	0.14	0.23	0.26	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
TIME	30	30	30	29.99	29.97	30	0	30	29.98	29.93	TIME	30	30	30	29.98	29.99	30	0	30	29.9	29.87	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0	0	0.12	0.25	0.27	0.18	0	0.15	0.24	0.26	MAX VEL	0	0	0.12	0.24	0.27	0.18	0	0.14	0.23	0.26	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0	0	0.84	0.98	1.26	1.13	0	0.35	1.29	1.05	DEPTH	0	0	0.82	0.97	1.26	1.12	0	0.34	1.28	1.04	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0	0	29.74	19.3	18.43																											

Segment O2
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP		EXIS									DIFF		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
NODE	671	672	673	674	675	676	677	678	679	680	NODE	671	672	673	674	675	676	677	678	679	680	NODE	671	672	673	674	675	676	677	678	679	680
ELEVATION	162.49	161.29	162.37	162.07	161.05	161.15	161.35	161.47	161.51	161.53	ELEVATION	162.49	161.29	162.37	162.07	161	161.14	161.34	161.46	161.5	161.51	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0	0	0	0	0.21	0.28	0.27	1.02	1.61	2.33	MAX DEPTH	0	0	0	0	0.16	0.27	0.26	1.01	1.6	2.31	MAX DEPTH	0.00	0.00	0.00	0.00	0.05	0.01	0.01	0.01	0.01	0.02
VELOCITY	0	0	0	0	0.05	0.09	0.13	0.24	0.26	0.53	VELOCITY	0	0	0	0	0.01	0.09	0.12	0.24	0.25	0.53	VELOCITY	0.00	0.00	0.00	0.00	0.05	0.01	0.01	0.01	0.01	0.02
TIME	0	0	0	0	30	28.74	30	30	30	29.96	TIME	0	0	0	0	30	29.49	30	30	29.98	TIME											
MAX VEL	0	0	0	0	0.05	0.1	0.13	0.24	0.26	0.53	MAX VEL	0	0	0	0	0.01	0.09	0.12	0.24	0.25	0.53	MAX VEL										
DEPTH	0	0	0	0	0.21	0.28	0.27	1.02	0.83	1.4	DEPTH	0	0	0	0	0.16	0.27	0.26	1.01	0.82	1.39	DEPTH										
TIME	0	0	0	0	30	28.75	30	30	18.42	17.85	TIME	0	0	0	0	30	29.49	30	29.86	18.47	17.89	TIME										
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	681	682	683	684	685	686	687	688	689	690	NODE	681	682	683	684	685	686	687	688	689	690	NODE	681	682	683	684	685	686	687	688	689	690
ELEVATION	161.61	161.73	161.85	161.9	161.92	161.94	161.95	161.95	161.95	161.95	ELEVATION	161.59	161.71	161.84	161.89	161.91	161.92	161.93	161.94	161.94	161.94	ELEVATION	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01
MAX DEPTH	1.22	0.96	1.94	1.24	2.18	2.95	3	3.33	2.67	0.44	MAX DEPTH	1.2	0.94	1.93	1.23	2.17	2.93	2.98	3.32	2.66	0.43	MAX DEPTH	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01
VELOCITY	0.28	0.37	0.41	0.29	0.33	0.38	0.53	0.57	0.37	0.03	VELOCITY	0.28	0.36	0.41	0.28	0.33	0.38	0.53	0.57	0.36	0.03	VELOCITY										
TIME	29.98	29.99	29.98	29.98	29.98	29.93	29.88	29.88	29.93	30	TIME	29.97	29.97	29.97	29.93	29.85	29.77	29.85	29.8	29.85	30	TIME										
MAX VEL	0.28	0.37	0.41	0.29	0.33	0.38	0.53	0.57	0.37	0.03	MAX VEL	0.28	0.36	0.41	0.28	0.33	0.38	0.53	0.57	0.36	0.03	MAX VEL										
DEPTH	1.21	0.95	1.94	0.57	0.91	1.56	1.5	1.73	0.95	0.4	DEPTH	1.2	0.94	1.93	0.56	0.9	1.56	1.49	1.73	0.95	0.41	DEPTH										
TIME	28.93	29.11	30	18.03	16.6	16.47	16.41	16.39	16.62	26.03	TIME	29.66	29.66	29.92	18.08	16.62	16.49	16.42	16.41	16.64	28.01	TIME										
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	691	692	693	694	695	696	697	698	699	700	NODE	691	692	693	694	695	696	697	698	699	700	NODE	691	692	693	694	695	696	697	698	699	700
ELEVATION	163.88	165.11	165.73	165.7	163.7	163.7	163.75	163.83	163.84	163.84	ELEVATION	163.88	165.11	165.73	165.7	163.69	163.7	163.74	163.84	163.85	163.86	ELEVATION	0.00	0.00	0.00	0.00	0.01	0.00	0.01	-0.01	-0.01	-0.02
MAX DEPTH	0	0	0	0	2.51	0.55	0.48	5.86	15.54	17.8	MAX DEPTH	0	0	0	0	2.5	0.55	0.47	5.87	15.55	17.82	MAX DEPTH	0.00	0.00	0.00	0.00	0.01	0.00	0.01	-0.01	-0.01	-0.02
VELOCITY	0	0	0	0	0.26	0.05	0.09	0.7	1.12	1.09	VELOCITY	0	0	0	0	0.26	0.06	0.09	0.7	1.16	1.12	VELOCITY										
TIME	0	0	0	0	29.94	29.9	29.89	26.97	26.97	27.12	TIME	0	0	0	0	29.44	29.44	28.84	26.6	29.22	26.59	TIME										
MAX VEL	0	0	0	0	0.26	0.05	0.09	0.71	1.12	1.09	MAX VEL	0	0	0	0	0.26	0.06	0.09	0.72	1.16	1.12	MAX VEL										
DEPTH	0	0	0	0	2.2	0.54	0.47	5.83	11.94	17.73	DEPTH	0	0	0	0	2.2	0.53	0.47	5.83	15.5	17.77	DEPTH										
TIME	0	0	0	0	18.31	27.18	28	27.81	12.01	23.26	TIME	0	0	0	0	18.37	27.88	26.62	27.85	25.99	25.99	TIME										
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	701	702	703	704	705	706	707	708	709	710	NODE	701	702	703	704	705	706	707	708	709	710	NODE	701	702	703	704	705	706	707	708	709	710
ELEVATION	163.85	163.85	163.85	163.86	163.88	163.89	163.91	145.32	167.63	167.58	ELEVATION	163.86	163.87	163.88	163.88	163.91	163.92	163.94	145.32	167.62	167.57	ELEVATION	-0.01	-0.02	-0.03	-0.02	-0.03	-0.03	-0.03	0.00	0.01	0.01
MAX DEPTH	17.87	17.17	14.37	12.92	12.03	11.73	9.85	0	21.52	17.53	MAX DEPTH	17.88	17.19	14.4	12.94	12.06	11.76	9.88	0	21.51	17.52	MAX DEPTH	-0.01	-0.02	-0.03	-0.02	-0.03	-0.03	-0.03	0.00	0.01	0.01
VELOCITY	1.25	1.28	1.12	1.1	1.05	1.05	1.5	0	3.2	1.82	VELOCITY	1.26	1.28	1.08	1.05	1.05	1.06	1.47	0	3.14	1.85	VELOCITY										
TIME	29.73	29.73	29.73	29.7	29.69	26.31	26.31	0	29.83	29.83	TIME	28.17	28.17	28.17	28.17	28.71	28.71	28.71	0	29.97	29.97	TIME										
MAX VEL	1.25	1.28	1.12	1.1	1.05	1.05	1.5	0	3.2	1.82	MAX VEL	1.26	1.28	1																		

Segment O2
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP		EXIS										DIFF		0.00																		
														0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
NODE	751	752	753	754	755	756	757	758	759	760	NODE	751	752	753	754	755	756	757	758	759	760	NODE	751	752	753	754	755	756	757	758	759	760
ELEVATION	163.7	163.78	163.78	163.79	163.81	163.82	163.82	163.83	163.84	163.85	ELEVATION	163.7	163.78	163.79	163.8	163.82	163.83	163.85	163.86	163.86	163.87	ELEVATION	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.03	-0.03	-0.02	-0.02
MAX DEPTH	1.07	3.89	7.76	17.75	19.56	19.37	18.19	16.43	15.75	14.8	MAX DEPTH	1.07	3.89	7.77	17.76	19.57	19.38	18.22	16.46	15.77	14.82	MAX DEPTH	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.03	-0.03	-0.02	-0.02
VELOCITY	0.19	0.6	0.97	1.3	1.38	1.12	1.13	1.18	1.19	1.23	VELOCITY	0.19	0.64	0.95	1.3	1.39	1.18	1.3	1.1	1.18	1.17	VELOCITY										
TIME	29.88	27.95	27.94	26.97	27.12	27.12	29.73	29.73	29.36	29.69	TIME	29.4	29.22	29.22	26.59	29.22	26.59	28.17	28.17	28.17	28.17	TIME										
MAX VEL	0.19	0.6	0.97	1.3	1.38	1.12	1.13	1.18	1.19	1.23	MAX VEL	0.19	0.64	0.95	1.31	1.39	1.18	1.3	1.11	1.18	1.17	MAX VEL										
DEPTH	0.23	3.84	7.62	17.06	19.37	19.06	18.18	16.38	15.71	14.78	DEPTH	0.23	3.84	7.73	17.73	19.51	19.25	18.18	16.42	15.55	14.55	DEPTH										
TIME	16.68	27.13	19.75	16.14	19.57	18.03	27.13	23.26	26.31	26.45	TIME	16.68	25.98	25.98	28.18	26.3	21.33	25.97	29.44	19.25	18.54	TIME										
NODE	761	762	763	764	765	766	767	768	769	770	NODE	761	762	763	764	765	766	767	768	769	770	NODE	761	762	763	764	765	766	767	768	769	770
ELEVATION	163.87	163.89	163.91	167.51	167.53	167.5	167.47	167.45	167.43	167.47	ELEVATION	163.9	163.91	163.95	167.49	167.52	167.48	167.46	167.44	167.43	167.41	ELEVATION	-0.03	-0.02	-0.04	0.02	0.01	0.02	0.01	0.01	0.00	0.06
MAX DEPTH	13.8	13.45	9.8	20.65	22.97	20.74	18.43	16.27	15.04	4.69	MAX DEPTH	13.83	13.47	9.84	20.63	22.96	20.72	18.42	16.26	15.04	4.63	MAX DEPTH	-0.03	-0.02	-0.04	0.02	0.01	0.02	0.01	0.01	0.00	0.06
VELOCITY	1.13	1.11	1.38	1.52	2.21	2.42	1.74	1.46	1.31	0.84	VELOCITY	1.11	1.2	1.36	1.46	2.21	2.42	1.77	1.51	1.31	0.8	VELOCITY										
TIME	29.68	26.31	26.31	29.82	29.83	29.44	29.82	29.83	29.82	29.83	TIME	28.71	28.71	26.6	29.48	29.48	29.48	29.48	29.48	29.48	29.48	TIME										
MAX VEL	1.13	1.11	1.38	1.52	2.21	2.42	1.74	1.46	1.31	0.84	MAX VEL	1.11	1.2	1.36	1.46	2.21	2.42	1.77	1.51	1.31	0.8	MAX VEL										
DEPTH	13.71	13.36	3.16	20.61	19.65	2.86	14.92	12.77	6.82	4.67	DEPTH	13.72	13.28	2.51	16.13	18.29	2.86	15.2	12.81	15.03	4.63	DEPTH										
TIME	22.61	22.61	9.31	25.23	12.15	4.22	12.04	12.05	8.98	25.15	TIME	21.78	19.57	8.85	11.32	11.2	4.22	12.24	12.07	29.93	29.6	TIME										
NODE	771	772	773	774	775	776	777	778	779	780	NODE	771	772	773	774	775	776	777	778	779	780	NODE	771	772	773	774	775	776	777	778	779	780
ELEVATION	167.46	168.54	172.6	181.43	193.48	214.34	229.38	242.85	161.58	161.01	ELEVATION	167.43	168.54	172.6	181.43	193.48	214.34	229.38	242.85	161.58	161.01	ELEVATION	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0.41	0	0	0	0	0	0	0	0	0	MAX DEPTH	0.38	0	0	0	0	0	0	0	0	0	MAX DEPTH	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.08	0	0	0	0	0	0	0	0	0	VELOCITY	0.08	0	0	0	0	0	0	0	0	0	VELOCITY										
TIME	29.89	0	0	0	0	0	0	0	0	0	TIME	30	0	0	0	0	0	0	0	0	0	TIME										
MAX VEL	0.08	0	0	0	0	0	0	0	0	0	MAX VEL	0.08	0	0	0	0	0	0	0	0	0	MAX VEL										
DEPTH	0.41	0	0	0	0	0	0	0	0	0	DEPTH	0.36	0	0	0	0	0	0	0	0	0	DEPTH										
TIME	28.68	0	0	0	0	0	0	0	0	0	TIME	28.84	0	0	0	0	0	0	0	0	0	TIME										
NODE	781	782	783	784	785	786	787	788	789	790	NODE	781	782	783	784	785	786	787	788	789	790	NODE	781	782	783	784	785	786	787	788	789	790
ELEVATION	161.1	160.98	160.82	160.88	160.95	161.02	161.18	161.35	161.43	161.51	ELEVATION	161.1	160.98	160.82	160.87	160.94	161	161.16	161.34	161.42	161.5	ELEVATION	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.01	0.01
MAX DEPTH	0	0	0	0.26	1.29	1.88	1.49	2.31	2.43	2.18	MAX DEPTH	0	0	0	0.25	1.28	1.86	1.47	2.3	2.42	2.17	MAX DEPTH	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.01	0.01
VELOCITY	0	0	0	0.11	0.3	0.39	0.41	0.5	0.49	0.45	VELOCITY	0	0	0	0.11	0.29	0.39	0.4	0.5	0.49	0.45	VELOCITY										
TIME	0	0	30	30	30	30	30	30	30	30	TIME	0	0	30	30	30	30	30	30	30	30	TIME										
MAX VEL	0	0	0	0.11	0.3	0.39	0.41	0.5	0.49	0.45	MAX VEL	0	0	0	0.11	0.29	0.39	0.4	0.5	0.49	0.45	MAX VEL										
DEPTH	0	0	0	0.26	1.29	1.88	1.48	2.31	2.43	0.85	DEPTH	0	0	0	0.25	1.28	1.86	1.47	2.3	2.42	0.85	DEPTH										
TIME	0	0	0	30	29.99	30	29.11	30	29.91	16.75	TIME	0	0	0	30	30	29.94	29.84	29.84	30	16.77	TIME										
NODE	791	792	793	794	795	796	797	798	799	800																						

Segment O2
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	901	902	903	904	905	906	907	908	909	910	NODE	901	902	903	904	905	906	907	908	909	910	NODE	901	902	903	904	905	906	907	908	909	910
ELEVATION	161.75	161.84	161.91	161.97	162.01	162.06	162.12	162.39	162.62	163.28	ELEVATION	161.74	161.83	161.9	161.95	162	162.04	162.11	162.39	162.61	163.28	ELEVATION	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.00	0.01	0.00
MAX DEPTH	3.24	3.37	3.08	2.96	3.79	3.05	2.2	0.5	0.18	0	MAX DEPTH	3.23	3.36	3.07	2.94	3.78	3.03	2.19	0.5	0.17	0	MAX DEPTH	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.00	0.01	0.00
VELOCITY	0.73	0.63	0.66	0.59	0.78	0.57	0.49	0.37	0.07	0	VELOCITY	0.73	0.63	0.66	0.59	0.78	0.57	0.48	0.3	0.07	0	VELOCITY										
TIME	30	30	30	30	29.96	30	30	28.9	30	0	TIME	29.79	29.79	29.79	29.74	29.72	29.71	29.72	29.49	30	0	TIME										
MAX VEL	0.73	0.63	0.66	0.59	0.78	0.57	0.49	0.37	0.07	0	MAX VEL	0.73	0.63	0.66	0.59	0.78	0.57	0.48	0.33	0.07	0	MAX VEL										
DEPTH	3.24	3.37	0.81	0.78	1.65	1.86	1.79	0.5	0.18	0	DEPTH	3.23	3.36	0.81	0.78	1.64	1.87	1.79	0.5	0.17	0	DEPTH										
TIME	28.88	28.88	14.86	14.85	14.74	16.19	18.75	28.87	29.97	0	TIME	29.63	29.63	14.87	14.86	14.75	16.24	18.84	29.68	30	0	TIME										
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	911	912	913	914	915	916	917	918	919	920	NODE	911	912	913	914	915	916	917	918	919	920	NODE	911	912	913	914	915	916	917	918	919	920
ELEVATION	164.53	166.31	166.97	167.28	163.64	163.66	163.67	163.71	163.75	163.72	ELEVATION	164.53	166.31	166.97	167.28	163.66	163.69	163.66	163.7	163.72	163.72	ELEVATION	0.00	0.00	0.00	0.00	-0.02	-0.03	0.01	0.01	0.03	0.00
MAX DEPTH	0	0	0	0	7.98	26.98	16.52	20.55	28.3	25.36	MAX DEPTH	0	0	0	0	8	27.01	16.51	20.54	28.27	25.36	MAX DEPTH	0.00	0.00	0.00	0.00	-0.02	-0.03	0.01	0.01	0.03	0.00
VELOCITY	0	0	0	0	0.83	2.73	1.5	1.44	3.56	2.68	VELOCITY	0	0	0	0	0.84	2.73	1.41	1.44	3.56	2.69	VELOCITY										
TIME	0	0	0	0	29.98	29.98	29.87	29.73	29.73	29.87	TIME	0	0	0	0	29.38	29.37	28.69	28.16	28.56	26.76	TIME										
MAX VEL	0	0	0	0	0.83	2.73	1.5	1.44	3.56	2.68	MAX VEL	0	0	0	0	0.85	2.73	1.41	1.44	3.56	2.69	MAX VEL										
DEPTH	0	0	0	0	7.93	9.08	16.32	20.51	4.4	2.43	DEPTH	0	0	0	0	7.94	9.08	16.19	20.34	4.4	2.43	DEPTH										
TIME	0	0	0	0	25.57	6.19	19.75	26.98	5.12	5.02	TIME	0	0	0	0	29.72	6.19	18.02	19.69	5.12	5.02	TIME										
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	921	922	923	924	925	926	927	928	929	930	NODE	921	922	923	924	925	926	927	928	929	930	NODE	921	922	923	924	925	926	927	928	929	930
ELEVATION	163.73	163.76	163.78	163.81	163.82	163.91	163.93	164	167.2	167.23	ELEVATION	163.74	163.76	163.78	163.8	163.84	163.89	163.94	164.02	167.2	167.21	ELEVATION	-0.01	0.00	0.00	0.01	-0.02	0.02	-0.01	-0.02	0.00	0.02
MAX DEPTH	23.56	21.36	19.52	18.35	17.86	18.3	18.71	14.3	18.31	16.65	MAX DEPTH	23.57	21.36	19.52	18.34	17.88	18.28	18.72	14.32	18.31	16.63	MAX DEPTH	-0.01	0.00	0.00	0.01	-0.02	0.02	-0.01	-0.02	0.00	0.02
VELOCITY	1.26	1.09	1.08	1.18	1.33	1.56	1.89	1.86	2.13	2.69	VELOCITY	1.26	1.26	1.08	1.29	1.33	1.57	1.89	1.86	1.87	2.39	VELOCITY										
TIME	29.87	29.34	29.35	29.47	29.35	26.59	28.86	26.59	29.82	29.82	TIME	27.47	28.83	28.18	28.19	26.6	28.17	28.16	29.47	29.47	TIME											
MAX VEL	1.26	1.09	1.08	1.18	1.33	1.56	1.89	1.86	2.13	2.69	MAX VEL	1.26	1.26	1.08	1.29	1.33	1.57	1.89	1.86	1.87	2.39	MAX VEL										
DEPTH	2.41	21.32	18.69	18.08	2.96	3.93	4.56	2.39	18.3	16.6	DEPTH	2.41	21.34	19.48	18.34	3.01	3.97	4.56	2.36	18.23	13.17	DEPTH										
TIME	5.33	27.13	15.66	18.54	6.65	6.68	6.49	7.04	28.86	22.96	TIME	5.33	28.18	25.79	28.18	6.67	6.69	6.49	7.01	24.37	12.16	TIME										
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	931	932	933	934	935	936	937	938	939	940	NODE	931	932	933	934	935	936	937	938	939	940	NODE	931	932	933	934	935	936	937	938	939	940
ELEVATION	167.33	167.27	167.28	167.31	170.77	179.28	195.27	206.46	213.59	221.89	ELEVATION	167.24	167.26	167.27	167.3	170.77	179.28	195.27	206.46	213.59	221.89	ELEVATION	0.09	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	16.88	22.12	14	4	0	0	0	0	0	0	MAX DEPTH	16.79	22.11	13.99	3.99	0	0	0	0	0	0	MAX DEPTH	0.09	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	2.07	1.89	1.44	0.81	0	0	0	0	0	0	VELOCITY	2.03	2.54	1.34	0.71	0	0	0	0	0	0	VELOCITY										
TIME	29.82	29.9	29.88	29.46	0	0	0	0	0	0	TIME	29.47	29.47	29.48	29.48	0	0	0	0	0	0	TIME										
MAX VEL	2.07	1.89	1.44	0.81	0	0	0	0	0	0	MAX VEL	2.03	2.54	1.35	0.72	0	0	0	0	0	0	MAX VEL										
DEPTH	8.65	3.94	13.75	3.98	0	0	0	0	0																							

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (= PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	NODE	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	173.76	159.58	159.59	159.63	159.72	159.85	159.99	160.15	160.31	160.53	ELEVATION	173.76	159.56	159.57	159.61	159.7	159.83	159.98	160.13	160.3	160.51	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0	1.87	2.57	3.11	3.21	3.57	4.19	3.91	3.57	3.05	MAX DEPTH	0	1.85	2.55	3.09	3.19	3.55	4.18	3.89	3.56	3.03	MAX DEPTH	0.00	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.02
VELOCITY	0	0.43	0.55	0.67	0.78	0.96	1.14	1.13	1.04	1.01	VELOCITY	0	0.42	0.54	0.66	0.77	0.96	1.14	1.13	1.04	1.01	VELOCITY										
TIME	0	29.96	29.94	29.94	30	30	29.92	29.95	29.98	29.99	TIME	0	29.99	30	30	30	29.99	29.99	29.99	29.98	30	TIME										
MAX VEL	0	0.43	0.55	0.67	0.78	0.96	1.14	1.13	1.04	1.01	MAX VEL	0	0.42	0.54	0.66	0.77	0.96	1.14	1.13	1.04	1.01	MAX VEL										
DEPTH	0	1.87	2.57	3.11	3.21	3.21	3.63	3.59	3.36	3.04	DEPTH	0	1.85	2.55	3.09	3.19	3.18	3.6	3.57	3.38	3.03	DEPTH										
TIME	0	30	29.97	29.98	29.53	21.45	19.79	21.47	22.45	28.95	TIME	0	29.95	29.92	29.93	29.46	21.35	19.74	21.37	23.02	29.46	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	NODE	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	NODE	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230
ELEVATION	160.72	160.91	161.12	161.33	161.58	161.87	162.18	162.52	162.78	162.8	ELEVATION	160.7	160.89	161.1	161.32	161.56	161.85	162.16	162.5	162.76	162.78	ELEVATION	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
MAX DEPTH	3.35	3.87	4.08	4.26	4.19	3.92	4.18	3.71	12.16	15.25	MAX DEPTH	3.33	3.85	4.06	4.25	4.17	3.9	4.16	3.69	12.14	15.23	MAX DEPTH	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
VELOCITY	1.39	1.19	1.14	1.2	1.23	1.28	1.37	1.33	1.38	2.08	VELOCITY	1.39	1.19	1.14	1.19	1.23	1.28	1.36	1.33	1.38	1.97	VELOCITY										
TIME	30	30	30	30	30	29.95	30	30	30	28.24	TIME	29.87	29.81	29.78	29.75	29.74	29.73	29.74	29.66	29.05	29.02	TIME										
MAX VEL	1.39	1.19	1.14	1.2	1.23	1.28	1.37	1.33	1.38	2.08	MAX VEL	1.39	1.19	1.14	1.19	1.23	1.28	1.36	1.33	1.38	1.97	MAX VEL										
DEPTH	3	3.83	4.04	4.23	4.11	3.46	4.16	3.66	11.9	3.23	DEPTH	3	3.78	4	4.19	4.12	3.45	4.12	3.69	11.87	3.15	DEPTH										
TIME	20.12	26.34	26.31	26.31	24.19	18.01	26.26	24.1	18.75	9.73	TIME	20.27	25.01	25.01	24.94	24.94	18.03	24.89	27.64	18.61	9.7	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	NODE	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	NODE	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240
ELEVATION	162.82	162.84	162.87	162.91	162.97	163.06	163.1	163.14	163.29	163.43	ELEVATION	162.8	162.82	162.85	162.9	162.95	163.05	163.09	163.13	163.28	163.41	ELEVATION	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.02
MAX DEPTH	12.77	11.82	11.88	11.88	11.84	19.31	23.71	21.86	10.91	12.49	MAX DEPTH	12.75	11.8	11.86	11.87	11.82	19.3	23.7	21.85	10.9	12.47	MAX DEPTH	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.02
VELOCITY	1.47	1.26	1.26	1.49	1.75	2.04	1.79	2.49	2.21	1.97	VELOCITY	1.41	1.19	1.19	1.45	1.74	2.07	1.77	2.51	2.23	2	VELOCITY										
TIME	28.57	30	30	30	28.85	28.85	28.85	29.32	28.84	28.84	TIME	29.42	29.42	29.05	29.05	29.05	29.05	29.06	29.05	29.05	29.05	TIME										
MAX VEL	1.47	1.26	1.26	1.49	1.75	2.04	1.79	2.49	2.21	1.97	MAX VEL	1.41	1.19	1.19	1.45	1.74	2.07	1.77	2.51	2.23	2	MAX VEL										
DEPTH	1.36	1.92	2.74	3.27	3.91	12.08	16.9	2.83	4.7	3.66	DEPTH	1.29	1.82	2.62	3.33	3.93	12.12	16.62	2.86	4.63	3.78	DEPTH										
TIME	9.61	9.76	9.82	9.82	9.92	10.03	10.3	7.97	10.33	8.5	TIME	9.57	9.75	9.81	9.93	9.98	10.07	10.12	7.97	10.27	8.51	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	NODE	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	NODE	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250
ELEVATION	163.52	163.54	163.58	163.6	163.63	163.65	163.68	163.71	163.76	166.68	ELEVATION	163.5	163.53	163.56	163.59	163.64	163.65	163.67	163.7	163.76	166.75	ELEVATION	0.02	0.01	0.02	0.01	-0.01	0.00	0.01	0.01	0.00	-0.07
MAX DEPTH	25.69	23.37	17.75	18.4	19.93	22.5	19.6	8.85	17.13	18.08	MAX DEPTH	25.67	23.36	17.73	18.39	19.94	22.5	19.59	8.84	17.13	18.15	MAX DEPTH	0.02	0.01	0.02	0.01	-0.01	0.00	0.01	0.01	0.00	-0.07
VELOCITY	2.88	1.73	1.47	1.39	1.36	4	1.5	0.69	2.22	1.81	VELOCITY	2.88	1.63	1.37	1.45	1.35	4	1.5	0.77	2.22	1.81	VELOCITY										
TIME	28.84	29.9	29.32	29.32	29.76	29.92	28.02	29.94	29.4	29.8	TIME	29.04	28.01	28.89	28.69	29.15	29.06	26.27	29.73	29.55	25.77	TIME										
MAX VEL	2.88	1.73	1.47	1.39	1.36	4	1.5	0.69	2.22	1.81	MAX VEL	2.88	1.63	1.39	1.45	1.35	4	1.5	0.77	2.22	1.81	MAX VEL										
DEPTH	3.66	23.32	17.47	18.33	19																											

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)														
PROP											EXIS											DIFF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	NODE	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	NODE	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300				
ELEVATION	163.08	163.11	163.23	163.39	163.47	163.53	163.56	163.6	163.63	163.65	ELEVATION	163.06	163.1	163.22	163.37	163.46	163.52	163.55	163.59	163.61	163.64	ELEVATION	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01				
MAX DEPTH	22.28	15.43	10.42	15.49	17.93	27.74	23.16	19.55	20.15	28.6	MAX DEPTH	22.26	15.42	10.41	15.47	17.92	27.73	23.15	19.54	20.13	28.59	MAX DEPTH	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01				
VELOCITY	2.19	1.76	1.85	2.28	2.11	2.52	1.5	1.35	1.39	2.84	VELOCITY	2.22	1.81	1.87	2.31	2.14	2.52	1.52	1.49	1.34	2.84	VELOCITY														
TIME	28.85	28.85	28.84	28.84	28.84	28.8	29.66	29.76	29.92	29.93	TIME	29.05	29.05	29.05	29.05	29.04	27.06	29.35	29.14	28.9	28.91	TIME														
MAX VEL	2.19	1.76	1.85	2.28	2.11	2.52	1.5	1.35	1.39	2.84	MAX VEL	2.22	1.81	1.87	2.31	2.14	2.52	1.52	1.49	1.34	2.84	MAX VEL														
DEPTH	14.98	8.23	4.12	10.18	14.67	6.21	22.75	19.51	20.09	4.42	DEPTH	15.03	8.33	4.05	10.53	14.85	6.21	23.09	19.48	19.81	4.42	DEPTH														
TIME	9.97	10.03	10.33	10.78	12.33	5.69	17.41	29.4	27.71	4.96	TIME	10.02	10.11	10.28	11.04	12.48	5.69	26.79	28.71	18.12	4.96	TIME														
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
NODE	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	NODE	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	NODE	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310				
ELEVATION	163.67	163.71	163.72	166.65	166.66	166.67	166.69	166.71	170.16	168.54	ELEVATION	163.66	163.69	163.71	166.7	166.72	166.73	166.75	166.78	170.16	168.54	ELEVATION	0.01	0.02	0.01	-0.05	-0.06	-0.06	-0.06	-0.07	0.00	0.00				
MAX DEPTH	14.19	11.12	17.27	18.36	30.32	30.08	23.82	14.95	0	0	MAX DEPTH	14.18	11.1	17.26	18.41	30.38	30.14	23.88	15.02	0	0	MAX DEPTH	0.01	0.02	0.01	-0.05	-0.06	-0.06	-0.06	-0.07	0.00	0.00				
VELOCITY	0.74	0.67	0.84	1.97	1.67	1.4	1.27	1.07	0	0	VELOCITY	0.64	0.61	0.84	1.97	1.71	1.53	1.51	1.15	0	0	VELOCITY														
TIME	29.94	29.94	27.54	29.8	29.79	29.8	29.44	29.44	0	0	TIME	29.01	29.19	29.01	29.93	28.73	29.93	29.75	29.46	0	0	TIME														
MAX VEL	0.74	0.67	0.84	1.97	1.67	1.4	1.27	1.07	0	0	MAX VEL	0.64	0.61	0.84	1.97	1.71	1.53	1.51	1.15	0	0	MAX VEL														
DEPTH	14.13	11.04	6.68	0.8	30.31	28.27	14.03	14.89	0	0	DEPTH	13.49	9.13	6.74	0.8	30.34	30.08	23.77	14.94	0	0	DEPTH														
TIME	28	28.01	7.9	5.36	28.23	13.99	8.63	23.89	0	0	TIME	16.21	13.7	7.91	5.36	27.07	28.11	22.67	23.73	0	0	TIME														
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
NODE	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	NODE	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	NODE	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320				
ELEVATION	167.35	166.9	166.72	166.52	165.51	165.12	165.54	165.1	164.65	159.36	ELEVATION	167.35	166.9	166.72	166.52	165.51	165.12	165.54	165.1	164.65	159.34	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02				
MAX DEPTH	0	0	0	0	0	0	0	0	0	2.5	MAX DEPTH	0	0	0	0	0	0	0	0	0	2.48	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02				
VELOCITY	0	0	0	0	0	0	0	0	0	0.61	VELOCITY	0	0	0	0	0	0	0	0	0	0.61	VELOCITY														
TIME	0	0	0	0	0	0	0	0	0	29.94	TIME	0	0	0	0	0	0	0	0	0	30	TIME														
MAX VEL	0	0	0	0	0	0	0	0	0	0.61	MAX VEL	0	0	0	0	0	0	0	0	0	0.61	MAX VEL														
DEPTH	0	0	0	0	0	0	0	0	0	2.5	DEPTH	0	0	0	0	0	0	0	0	0	2.48	DEPTH														
TIME	0	0	0	0	0	0	0	0	0	29.96	TIME	0	0	0	0	0	0	0	0	0	30	TIME														
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
NODE	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	NODE	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	NODE	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330				
ELEVATION	159.37	159.41	159.46	159.54	159.67	159.84	160.01	160.18	160.41	160.62	ELEVATION	159.35	159.39	159.44	159.52	159.65	159.82	159.99	160.16	160.39	160.61	ELEVATION	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01				
MAX DEPTH	3.28	4.07	4.19	5.23	3.85	3.02	3.72	3.99	3.42	4.26	MAX DEPTH	3.26	4.05	4.17	5.21	3.83	3	3.7	3.97	3.4	4.25	MAX DEPTH	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01				
VELOCITY	0.75	0.77	0.93	1.22	1.2	1.16	1.13	1.17	1.16	1.45	VELOCITY	0.75	0.77	0.93	1.22	1.2	1.16	1.13	1.17	1.16	1.45	VELOCITY														
TIME	29.93	30	30	30	30	29.96	29.98	29.99	30	30	TIME	30	29.98	29.97	29.97	30	30	29.96	29.97	29.9																

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (= PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	NODE	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	164.68	164.96	165.42	159.21	159.24	159.3	159.38	159.44	159.54	159.68	ELEVATION	164.68	164.96	165.42	159.2	159.22	159.28	159.36	159.42	159.52	159.66	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0	0	0	2.86	3.62	4.3	4.95	4.72	3.76	3.88	MAX DEPTH	0	0	0	2.85	3.6	4.28	4.93	4.7	3.74	3.86	MAX DEPTH	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02
VELOCITY	0	0	0	0.77	0.88	0.95	1.24	1.24	1.29	1.12	VELOCITY	0	0	0	0.76	0.87	0.94	1.24	1.24	1.29	1.11	VELOCITY										
TIME	0	0	0	29.94	29.93	30	30	30	30	29.93	TIME	0	0	0	30	30	29.98	29.97	29.95	29.96	29.63	TIME										
MAX VEL	0	0	0	0.77	0.88	0.95	1.24	1.24	1.29	1.12	MAX VEL	0	0	0	0.76	0.87	0.94	1.24	1.24	1.29	1.11	MAX VEL										
DEPTH	0	0	0	2.86	3.62	4.3	4.94	1.38	3.69	3.88	DEPTH	0	0	0	2.85	3.6	4.28	4.92	1.38	3.73	3.86	DEPTH										
TIME	0	0	0	29.94	29.82	29.9	29.32	15.98	26.37	29.93	TIME	0	0	0	30	29.99	29.85	29.62	15.99	29.14	29.17	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	NODE	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	NODE	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390
ELEVATION	159.85	160	160.19	160.44	160.71	161.03	161.39	161.83	162.42	162.75	ELEVATION	159.83	159.99	160.17	160.43	160.69	161.01	161.37	161.81	162.4	162.73	ELEVATION	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
MAX DEPTH	4.42	5.33	4.42	3.93	3.26	2.73	2.39	1.92	1.3	7.49	MAX DEPTH	4.4	5.32	4.4	3.92	3.24	2.71	2.37	1.9	1.28	7.47	MAX DEPTH	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
VELOCITY	1.23	1.21	1.23	1.31	1.18	1	0.94	0.84	0.69	1.03	VELOCITY	1.23	1.21	1.24	1.31	1.17	0.99	0.93	0.84	0.68	1.02	VELOCITY										
TIME	29.98	29.99	30	30	30	30	30	30	30	28.64	TIME	29.92	29.92	29.92	29.88	29.82	29.81	29.76	29.42	29.35	29.33	TIME										
MAX VEL	1.23	1.21	1.23	1.31	1.18	1	0.94	0.84	0.69	1.03	MAX VEL	1.23	1.21	1.24	1.31	1.17	0.99	0.93	0.84	0.68	1.02	MAX VEL										
DEPTH	3.32	5.05	1.69	3.2	3.22	2.72	2.38	1.92	1.3	7.49	DEPTH	3.31	4.95	1.69	3.2	3.22	2.71	2.37	1.9	1.28	7.47	DEPTH										
TIME	17.84	21.89	14.89	18.2	26.31	28.94	28.91	28.73	28.72	29.09	TIME	17.86	21.08	14.9	18.25	27.78	29.42	29.41	29.19	29.09	27.94	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	NODE	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	NODE	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400
ELEVATION	162.76	162.77	162.78	162.8	162.82	162.85	162.88	162.92	162.95	162.99	ELEVATION	162.75	162.76	162.77	162.79	162.81	162.83	162.87	162.9	162.94	162.98	ELEVATION	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.01
MAX DEPTH	15.97	13.38	13.1	13.8	13.18	12.85	13.18	13.63	11.96	10.99	MAX DEPTH	15.96	13.37	13.09	13.79	13.17	12.83	13.17	13.61	11.95	10.98	MAX DEPTH	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.01
VELOCITY	1.44	1.77	1.47	1.45	1.2	1.4	1.82	2.04	1.52	1.52	VELOCITY	1.4	1.71	1.4	1.37	1.17	1.35	1.83	2.06	1.49	1.55	VELOCITY										
TIME	26.98	29.08	30	30	30	28.68	28.25	28.85	30	30	TIME	29.41	28	27.63	29.42	29.04	29.42	29.42	29.05	29.05	29.05	TIME										
MAX VEL	1.44	1.77	1.47	1.45	1.2	1.4	1.82	2.04	1.52	1.52	MAX VEL	1.4	1.71	1.4	1.37	1.17	1.35	1.83	2.06	1.49	1.55	MAX VEL										
DEPTH	3.19	1.64	2.6	3.96	3.65	3.7	2.61	3.4	3	3	DEPTH	3.12	1.59	2.53	3.86	1.86	3.58	2.62	3.42	3.8	3.22	DEPTH										
TIME	9.73	9.64	9.74	9.81	9.83	9.84	8.91	8.91	9.49	9.89	TIME	9.69	9.61	9.72	9.79	9.14	9.83	8.88	8.88	9.98	10.06	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	NODE	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	NODE	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410
ELEVATION	163.04	163.07	163.02	162.99	162.97	162.97	162.97	162.98	163.67	163.68	ELEVATION	163.03	163.05	163.02	162.98	162.96	162.94	162.93	162.93	163.66	163.67	ELEVATION	0.01	0.02	0.00	0.01	0.01	0.03	0.04	0.05	0.01	0.01
MAX DEPTH	10.18	12.25	11.53	10.24	9.88	10.13	8.83	8.78	9.97	12.09	MAX DEPTH	10.17	12.23	11.53	10.23	9.87	10.1	8.79	8.73	9.96	12.08	MAX DEPTH	0.01	0.02	0.00	0.01	0.01	0.03	0.04	0.05	0.01	0.01
VELOCITY	1.62	4.06	0.92	0.61	0.21	0.37	0.29	0.21	0.38	0.44	VELOCITY	1.66	4.09	0.92	0.61	0.33	0.43	0.39	0.24	0.47	0.45	VELOCITY										
TIME	30	29.07	28.71	30	29.23	29.93	29.36	29.36	29.95	29.95	TIME	29.14	29.14	28.39	29.15	27.64	29.16	29.21	29.24	29.07	29.07	TIME										
MAX VEL	1.62	4.06	0.92	0.61	0.21	0.37	0.29	0.21	0.38	0.44	MAX VEL	1.66	4.09	0.92	0.61	0.33	0.43	0.39	0.24	0.47	0.45	MAX VEL										
DEPTH	3	2.28	11.44	1.7	0.99	2.33	1.1	3.97	9.89	3.29	DEPTH	3	2.41	11.39	1.69	1.08																

Segment O2
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)																
PROP											EXIS											DIFF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	NODE	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	NODE	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460						
ELEVATION	162.86	162.88	162.91	162.94	162.96	162.99	163.02	162.99	162.97	162.97	ELEVATION	162.84	162.87	162.9	162.92	162.95	162.97	163.01	162.98	162.95	162.94	ELEVATION	0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.02						
MAX DEPTH	13.96	13.44	12.24	12.48	11.93	21.42	23.86	14.68	10.06	9.94	MAX DEPTH	13.94	13.43	12.23	12.46	11.92	21.4	23.85	14.67	10.04	9.91	MAX DEPTH	0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.02						
VELOCITY	2.02	1.64	1.21	1.12	1.16	1.29	1.78	0.85	0.58	0.67	VELOCITY	2.05	1.67	1.19	1.16	1.11	1.35	1.8	0.91	0.59	0.67	VELOCITY																
TIME	28.7	28.85	29.99	29.9	28.72	28.71	28.53	29.99	29.26	29.35	TIME	29.05	29.06	29.06	28.01	28.39	28.49	29.14	29.15	29.16	29.16	TIME																
MAX VEL	2.02	1.64	1.21	1.12	1.16	1.29	1.78	0.85	0.58	0.67	MAX VEL	2.05	1.67	1.19	1.16	1.11	1.35	1.8	0.91	0.59	0.67	MAX VEL																
DEPTH	2.89	2.54	3.69	4.12	11.8	1.02	12.23	3.77	1.5	1.4	DEPTH	2.92	2.57	3.75	1.86	11.91	1.07	12.25	3.79	1.51	1.4	DEPTH																
TIME	9.01	9.01	9.91	9.98	20.69	8.28	9.16	9.25	9.95	9.96	TIME	8.97	8.98	9.99	9.12	25.89	8.26	9.12	9.22	10.02	10.02	TIME																
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
NODE	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	NODE	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	NODE	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470						
ELEVATION	162.97	162.98	162.99	163.68	163.68	145.93	166.04	166.17	167.07	169.38	ELEVATION	162.93	162.93	162.94	163.67	163.68	145.93	166.1	166.23	167.07	169.38	ELEVATION	0.04	0.05	0.05	0.01	0.00	0.00	-0.06	-0.06	0.00	0.00						
MAX DEPTH	9.82	11.68	8.48	13.16	17.74	0	18.66	2.85	0	0	MAX DEPTH	9.78	11.63	8.43	13.15	17.74	0	18.72	2.91	0	0	MAX DEPTH	0.04	0.05	0.05	0.01	0.00	0.00	-0.06	-0.06	0.00	0.00						
VELOCITY	0.66	0.64	0.47	0.45	0.59	0	6.47	2.38	0	0	VELOCITY	0.63	0.6	0.43	0.46	0.58	0	6.45	2.43	0	0	VELOCITY																
TIME	29.94	29.82	29.83	29.96	29.96	0	29.8	29.8	0	0	TIME	29.16	29.21	29.21	29.08	29.08	0	29.93	29.93	0	0	TIME																
MAX VEL	0.66	0.64	0.47	0.45	0.59	0	6.47	2.38	0	0	MAX VEL	0.63	0.6	0.43	0.46	0.58	0	6.45	2.43	0	0	MAX VEL																
DEPTH	1.48	3.73	0.98	2.25	6.09	0	18.65	2.85	0	0	DEPTH	1.43	4.22	0.94	2.28	5.97	0	18.71	2.91	0	0	DEPTH																
TIME	9.95	10	10.38	7.84	7.47	0	28.21	29.8	0	0	TIME	10.02	10.42	10.46	7.84	7.4	0	29.99	29.93	0	0	TIME																
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
NODE	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	NODE	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	NODE	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480						
ELEVATION	166.62	166.29	167.02	165.7	166.02	161.47	159.72	159.7	159.69	159.39	ELEVATION	166.62	166.29	167.02	165.7	166.02	161.47	159.73	159.71	159.7	159.41	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.02						
MAX DEPTH	0	0	0	0	0	0	1.97	1.27	1.55	0.29	MAX DEPTH	0	0	0	0	0	0	1.98	1.28	1.56	0.31	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.02						
VELOCITY	0	0	0	0	0	0	0.31	0.35	0.21	0	VELOCITY	0	0	0	0	0	0	0.31	0.35	0.21	0	VELOCITY																
TIME	0	0	0	0	0	0	30	30	30	30	TIME	0	0	0	0	0	0	30	30	30	30	TIME																
MAX VEL	0	0	0	0	0	0	0.31	0.35	0.21	0	MAX VEL	0	0	0	0	0	0	0.31	0.35	0.21	0	MAX VEL																
DEPTH	0	0	0	0	0	0	1.47	0.7	1.54	0	DEPTH	0	0	0	0	0	0	1.47	0.7	1.54	0	DEPTH																
TIME	0	0	0	0	0	0	25.07	26.3	29.92	0	TIME	0	0	0	0	0	0	25.02	26.25	29.85	0	TIME																
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
NODE	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	NODE	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	NODE	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490						
ELEVATION	157.66	157.67	157.69	157.71	157.8	158.02	158.29	158.6	158.82	158.92	ELEVATION	157.63	157.65	157.66	157.68	157.78	158	158.27	158.58	158.8	158.9	ELEVATION	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02						
MAX DEPTH	1.67	1.55	2.33	2.55	1.85	1.51	1.68	2.45	3.62	4.05	MAX DEPTH	1.64	1.53	2.3	2.52	1.83	1.49	1.66	2.43	3.6	4.03	MAX DEPTH	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02						
VELOCITY	0.22	0.19	0.25	0.28	0.37	0.48	0.55	0.77	0.96	1.04	VELOCITY	0.22	0.19	0.24	0.28	0.37	0.47	0.55	0.76	0.96	1.03	VELOCITY																
TIME	29.99	29.99	30	30	30	30	30	30	30	30	TIME	30	30	30	30	30	30	30	30	30	30																	

Segment O2
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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NODE	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	NODE	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP		EXIS										DIFF		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
														0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
NODE	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	NODE	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	NODE	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620
ELEVATION	158.47	158.58	158.68	158.78	158.89	159.03	159.16	159.28	159.39	159.61	ELEVATION	158.45	158.56	158.66	158.76	158.87	159.01	159.14	159.26	159.37	159.59	ELEVATION	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
MAX DEPTH	3.86	4.54	5.15	4.76	4.83	4.14	4.07	3.37	3.29	1.45	MAX DEPTH	3.84	4.52	5.13	4.74	4.81	4.12	4.05	3.35	3.27	1.43	MAX DEPTH	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
VELOCITY	0.99	1.13	1.21	1.21	1.27	1.2	1.11	0.91	0.87	0.5	VELOCITY	0.98	1.13	1.21	1.21	1.27	1.2	1.11	0.91	0.87	0.49	VELOCITY										
TIME	29.97	30	30	30	30	29.99	29.98	30	29.99	29.97	TIME	29.99	30	30	30	30	30	29.92	29.94	29.94	29.98	TIME										
MAX VEL	0.99	1.13	1.21	1.21	1.27	1.2	1.11	0.91	0.87	0.5	MAX VEL	0.98	1.13	1.21	1.21	1.27	1.2	1.11	0.91	0.87	0.49	MAX VEL										
DEPTH	3.29	3.96	4.55	4.24	4.28	3.62	3.65	3.37	3.29	1.44	DEPTH	3.29	3.95	4.55	4.2	4.29	3.63	3.63	3.35	3.27	1.43	DEPTH										
TIME	21.34	21.21	21.08	21.53	21.2	21.19	21.74	29.53	29.97	29.91	TIME	21.42	21.3	21.18	21.41	21.41	21.4	21.75	29.94	29.69	29.85	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	NODE	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	NODE	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630
ELEVATION	160.08	160.91	161.68	162.19	162.5	162.55	162.6	162.64	162.68	162.7	ELEVATION	160.06	160.9	161.67	162.18	162.48	162.54	162.59	162.63	162.66	162.69	ELEVATION	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.01
MAX DEPTH	0.87	0.53	0.92	1.19	2.66	7.59	13.18	14.63	13.18	13.19	MAX DEPTH	0.85	0.52	0.91	1.18	2.64	7.58	13.17	14.62	13.16	13.18	MAX DEPTH	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.01
VELOCITY	0.45	0.4	0.49	0.54	0.51	0.76	1.34	1.33	1.39	1.58	VELOCITY	0.44	0.4	0.49	0.53	0.51	0.75	1.31	1.3	1.35	1.51	VELOCITY										
TIME	30	30	30	30	29.94	29.94	29.94	30	30	29.99	TIME	29.99	29.81	29.43	29.26	29.09	29.08	29.04	29.07	29.07	29.07	TIME										
MAX VEL	0.45	0.4	0.49	0.54	0.51	0.76	1.34	1.33	1.39	1.58	MAX VEL	0.44	0.4	0.49	0.53	0.51	0.75	1.31	1.3	1.35	1.51	MAX VEL										
DEPTH	0.87	0.53	0.92	1.19	2.66	7.43	9.93	11.17	1.81	2.64	DEPTH	0.85	0.52	0.91	1.18	2.64	7.37	9.78	11.11	1.76	2.56	DEPTH										
TIME	29.25	29.15	30	30	28.86	20.55	12.91	12.72	9.7	9.75	TIME	29.8	29.56	29.42	29.25	29.06	19.78	12.8	12.69	9.67	9.72	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	NODE	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	NODE	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640
ELEVATION	162.72	162.74	162.77	162.8	162.82	162.85	162.87	162.89	162.91	162.92	ELEVATION	162.7	162.72	162.75	162.78	162.81	162.83	162.86	162.87	162.89	162.9	ELEVATION	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.02
MAX DEPTH	14.54	15.39	14.44	13.76	13.57	13.81	13.34	12.98	12.86	12.36	MAX DEPTH	14.52	15.37	14.42	13.74	13.56	13.79	13.33	12.96	12.84	12.34	MAX DEPTH	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.02
VELOCITY	1.42	1.22	1.27	1.3	1.26	1.18	1.05	1.1	1.27	1.03	VELOCITY	1.34	1.22	1.27	1.26	1.23	1.14	1.01	1.08	1.28	0.98	VELOCITY										
TIME	29.99	29.99	28.71	29.99	28.7	28.69	28.85	28.85	29.68	29.27	TIME	29.07	29.07	29.07	29.06	29.06	29.06	29.13	29.76	28.28	29.22	TIME										
MAX VEL	1.42	1.22	1.27	1.3	1.26	1.18	1.05	1.1	1.27	1.03	MAX VEL	1.34	1.22	1.27	1.26	1.23	1.14	1.01	1.08	1.28	0.98	MAX VEL										
DEPTH	4.49	7.28	4.95	4.35	4.45	4.99	4.71	0.85	0.8	0.7	DEPTH	4.4	7.15	5.47	4.27	4.38	5.08	4.72	0.81	0.74	0.65	DEPTH										
TIME	9.82	10.37	9.92	9.86	9.89	9.96	10	8.81	8.79	8.91	TIME	9.81	10.34	10.1	9.86	9.9	10.04	10.04	8.77	8.69	8.88	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650	NODE	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650	NODE	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650
ELEVATION	162.93	162.94	162.96	162.98	144.74	161.43	163.02	163.33	166.99	167.31	ELEVATION	162.91	162.91	162.91	162.92	144.74	161.48	163.14	163.45	166.99	167.31	ELEVATION	0.02	0.03	0.05	0.06	0.00	-0.05	-0.12	-0.12	0.00	0.00
MAX DEPTH	11.62	14.78	18.25	17.54	0	15.47	16.67	3.65	0	0	MAX DEPTH	11.6	14.75	18.2	17.48	0	15.52	16.79	3.77	0	0	MAX DEPTH	0.02	0.03	0.05	0.06	0.00	-0.05	-0.12	-0.12	0.00	0.00
VELOCITY	0.77	1.19	1.76	2.01	0	2.81	6.42	4.34	0	0	VELOCITY	0.68	1.15	1.69	1.91	0	2.56	6.6	4.3	0	0	VELOCITY										
TIME	29.83	28.97	29.98	29.29	0	29.75	29.38	29.78	0	0	TIME	29.36	29.17	29.19	29.46	0	29.71	29.94	29.94	0	0	TIME										
MAX VEL	0.77	1.19	1.76	2.01	0	2.81	6.42	4.34	0	0	MAX VEL	0.68	1.15	1.69	1.91	0	2.56	6.6	4.3	0	0	MAX VEL										
DEPTH	0.59	4.64	8.44	8.19	0	15.47	16.66	3.65	0	0	DEPTH	0.51	4.55	8.4	8.07	0	15.5	16.79	3.77	0	0	DEPTH										
TIME	8.95	9.																														

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)															
PROP											EXIS											DIFF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	NODE	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	NODE	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930					
ELEVATION	158.08	158.14	158.22	158.55	159.58	160.73	161.47	162	162.23	162.3	ELEVATION	158.06	158.12	158.2	158.53	159.57	160.72	161.46	161.99	162.22	162.29	ELEVATION	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01					
MAX DEPTH	1.68	1.02	0.91	0.58	0.39	0.45	0.35	1.66	15.56	18.32	MAX DEPTH	1.66	1	0.89	0.56	0.38	0.44	0.34	1.65	15.55	18.31	MAX DEPTH	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01					
VELOCITY	0.5	0.34	0.3	0.29	0.36	0.4	0.29	0.8	3.42	2.19	VELOCITY	0.49	0.33	0.3	0.28	0.36	0.39	0.28	0.79	3.41	2.15	VELOCITY															
TIME	30	30	30	30	30	29.11	30	30	30	30	TIME	30	30	30	30	30	29.55	29.44	29.13	29.09	29.09	TIME															
MAX VEL	0.5	0.34	0.3	0.29	0.36	0.4	0.29	0.8	3.42	2.19	MAX VEL	0.49	0.33	0.3	0.28	0.36	0.39	0.28	0.79	3.41	2.15	MAX VEL															
DEPTH	1.68	1.02	0.91	0.58	0.39	0.45	0.35	1.66	15.42	16.46	DEPTH	1.66	1	0.89	0.56	0.38	0.44	0.34	1.65	15.38	18.13	DEPTH															
TIME	30	30	30	30	29.29	30	30	30	21.45	14.31	TIME	30	30	30	30	29.97	29.88	29.41	29.13	20.75	20.48	TIME															
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
NODE	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	NODE	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	NODE	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940					
ELEVATION	162.34	162.37	162.41	162.44	162.47	147.45	159.78	159.82	159.84	159.87	ELEVATION	162.33	162.36	162.39	162.42	162.45	147.45	159.77	159.82	159.84	159.87	ELEVATION	0.01	0.01	0.02	0.02	0.02	0.00	0.01	0.00	0.00	0.00					
MAX DEPTH	18.8	17.63	16.1	15.27	15.85	0	15.1	15.44	19.05	18.11	MAX DEPTH	18.79	17.62	16.08	15.25	15.83	0	15.09	15.44	19.05	18.11	MAX DEPTH	0.01	0.01	0.02	0.02	0.02	0.00	0.01	0.00	0.00	0.00					
VELOCITY	1.44	1.25	1.31	1.34	1.46	0	1.27	1.53	1.46	1.23	VELOCITY	1.4	1.23	1.27	1.31	1.43	0	1.28	1.56	1.45	1.21	VELOCITY															
TIME	30	30	29.92	30	30	0	29.88	29.92	29.94	29.82	TIME	29.09	29.12	29.11	29.1	29.1	0	29.47	29.4	29.4	29.48	TIME															
MAX VEL	1.44	1.25	1.31	1.34	1.46	0	1.27	1.53	1.46	1.23	MAX VEL	1.4	1.23	1.27	1.31	1.43	0	1.28	1.56	1.45	1.21	MAX VEL															
DEPTH	16.95	15.8	12.78	11.94	12.58	0	15.01	15.44	3	18.04	DEPTH	18.61	14.68	12.6	11.8	12.4	0	14.94	15.41	3	14.43	DEPTH															
TIME	14.31	14.32	12.97	12.95	12.97	0	23.06	29.26	5.97	23.64	TIME	20.38	13.25	12.84	12.84	12.84	0	21.05	25.48	5.98	12.61	TIME															
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
NODE	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	NODE	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	NODE	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950					
ELEVATION	159.9	159.93	159.98	160.05	160.13	160.2	160.26	160.31	160.33	160.34	ELEVATION	159.9	159.93	159.98	160.06	160.14	160.21	160.27	160.33	160.35	160.35	ELEVATION	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.01					
MAX DEPTH	17.16	14.89	12.48	11.41	9.32	6.39	5.47	8.14	7.13	4.24	MAX DEPTH	17.16	14.89	12.48	11.42	9.33	6.4	5.48	8.16	7.15	4.25	MAX DEPTH	0.00	0.00	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.01					
VELOCITY	1.2	1.16	0.98	1.13	0.86	0.9	0.96	2.34	1.32	0.91	VELOCITY	1.2	1.17	1	1.15	0.88	0.93	0.94	2.3	1.31	0.93	VELOCITY															
TIME	30	29.92	30	30	29.9	29.9	29.9	29.9	29.9	29.9	TIME	29.4	29.79	29.79	29.41	29.41	29.43	29.43	29.44	29.44	29.45	TIME															
MAX VEL	1.2	1.16	0.98	1.13	0.86	0.9	0.96	2.34	1.32	0.91	MAX VEL	1.2	1.17	1	1.15	0.88	0.93	0.94	2.3	1.31	0.93	MAX VEL															
DEPTH	13.56	11.31	8.91	7.93	9.32	6.39	4.31	1.66	3	3.87	DEPTH	13.51	11.27	8.92	7.94	9.33	6.22	5.18	1.66	3.92	4.07	DEPTH															
TIME	12.68	12.68	12.66	12.68	29.8	29.8	15.21	10.68	12.02	17.96	TIME	12.63	12.63	12.65	12.68	28.84	20.56	18.63	10.74	12.77	20.32	TIME															
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
NODE	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	NODE	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	NODE	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960					
ELEVATION	160.56	164.53	162.45	160.21	160.26	160.34	160.02	160.14	159.94	159.97	ELEVATION	160.55	164.53	162.45	160.21	160.26	160.34	160.02	160.14	159.94	159.98	ELEVATION	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01					
MAX DEPTH	0.08	0	0	0	0	0	0	0	0	2.06	MAX DEPTH	0.07	0	0	0	0	0	0	0	0	2.07	MAX DEPTH	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01					
VELOCITY	0	0	0	0	0	0	0	0	0	0.18	VELOCITY	0	0	0	0	0	0	0	0	0	0.18	VELOCITY															
TIME	30	0	0	0	0	0	0	0	30	29.92	TIME	30	0	0	0	0	0	0	0	30	29.99	TIME															
MAX VEL	0	0	0	0	0	0	0	0	0	0.18	MAX VEL	0	0	0	0	0	0	0	0	0	0.18	MAX VEL															
DEPTH	0	0	0	0	0	0	0	0	0	1.71	DEPTH	0	0	0	0	0	0	0	0	0	1.7	DEPTH															
TIME	0	0	0	0	0	0	0	0																													

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (= PROPOSED - EXISTING)																
PROP											EXIS											DIFF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080		2071	2072	2073	2074	2075	2076	2077	2078	2079	2080		2071	2072	2073	2074	2075	2076	2077	2078	2079	2080				
NODE	160.12	160.13	162.2	161.78	160.03	160.03	160.02	160.02	160.01	160	NODE	160.13	160.14	162.2	161.78	160.04	160.04	160.03	160.02	160.01	160	NODE	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080				
ELEVATION	160.12	160.13	162.2	161.78	160.03	160.03	160.02	160.02	160.01	160	ELEVATION	160.13	160.14	162.2	161.78	160.04	160.04	160.03	160.02	160.01	160	ELEVATION	-0.01	-0.01	0.00	0.00	-0.01	-0.01	-0.01	0.00	0.00	0.00				
MAX DEPTH	6.42	4.86	0	0	3.63	10.1	9.56	3.48	3.04	3.57	MAX DEPTH	6.43	4.87	0	0	3.64	10.11	9.57	3.48	3.04	3.57	MAX DEPTH	-0.01	-0.01	0.00	0.00	-0.01	-0.01	-0.01	0.00	0.00	0.00				
VELOCITY	0.74	0.77	0	0	0.25	1.68	1.6	0.34	0.29	0.34	VELOCITY	0.79	0.79	0	0	0.25	1.68	1.6	0.34	0.29	0.33	VELOCITY														
TIME	29.71	29.88	0	0	29.95	29.95	29.95	29.95	29.96	29.96	TIME	29.43	29.44	0	0	29.97	29.97	29.96	29.76	29.98	29.97	TIME														
MAX VEL	0.74	0.77	0	0	0.25	1.68	1.6	0.34	0.29	0.34	MAX VEL	0.79	0.79	0	0	0.25	1.68	1.6	0.34	0.29	0.33	MAX VEL														
DEPTH	5.73	4.62	0	0	2.26	4.21	4.27	1.65	2.7	3.21	DEPTH	5.94	4.64	0	0	2.25	4.21	4.27	1.65	2.74	3.22	DEPTH														
TIME	16.6	20.15	0	0	17.39	13.67	13.95	17.26	20.57	20.58	TIME	17.51	20.32	0	0	17.35	13.66	13.94	17.24	20.74	20.51	TIME														
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
NODE	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	NODE	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	NODE	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090				
ELEVATION	159.99	159.98	159.98	159.97	159.97	159.96	159.96	163.38	168.85	178.05	ELEVATION	159.99	159.99	159.98	159.98	159.97	159.97	159.96	163.38	168.85	178.05	ELEVATION	0.00	-0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.00				
MAX DEPTH	2.9	6.57	4.29	3.66	4.04	2.47	0.42	0	0	0	MAX DEPTH	2.9	6.58	4.29	3.67	4.04	2.48	0.42	0	0	0	MAX DEPTH	0.00	-0.01	0.00	-0.01	0.00	-0.01	0.00	0.00	0.00	0.00				
VELOCITY	0.27	1.51	0.58	0.35	0.4	0.15	0.01	0	0	0	VELOCITY	0.26	1.51	0.58	0.35	0.4	0.15	0.01	0	0	0	VELOCITY														
TIME	29.99	30	30	30	30	30	30	0	0	0	TIME	29.82	30	30	30	30	30	30	0	0	0	TIME														
MAX VEL	0.27	1.51	0.58	0.35	0.4	0.15	0.01	0	0	0	MAX VEL	0.26	1.51	0.58	0.35	0.4	0.15	0.01	0	0	0	MAX VEL														
DEPTH	2.53	3.33	1.05	1.3	1.66	0.64	0.42	0	0	0	DEPTH	2.55	3.34	1.06	1.3	1.66	0.64	0.42	0	0	0	DEPTH														
TIME	20.61	16.1	16.22	17.32	17.32	18.23	30	0	0	0	TIME	20.6	16.07	16.19	17.3	17.3	18.2	30	0	0	0	TIME														
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
NODE	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	NODE	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	NODE	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100				
ELEVATION	157.25	157.26	157.28	157.3	157.32	157.35	157.38	157.41	157.44	157.47	ELEVATION	157.23	157.24	157.26	157.28	157.3	157.33	157.36	157.39	157.42	157.45	ELEVATION	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
MAX DEPTH	4.76	4.46	3.56	3.6	3.46	4.09	4.59	6.35	6.88	5.76	MAX DEPTH	4.74	4.44	3.54	3.58	3.44	4.07	4.57	6.33	6.86	5.74	MAX DEPTH	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
VELOCITY	0.63	0.6	0.55	0.54	0.55	0.63	0.8	1.35	1.46	1.2	VELOCITY	0.63	0.59	0.55	0.54	0.55	0.63	0.79	1.35	1.45	1.2	VELOCITY														
TIME	30	30	30	30	30	30	30	30	30	30	TIME	29.99	30	30	30	30	30	30	30	30	30	TIME														
MAX VEL	0.63	0.6	0.55	0.54	0.55	0.63	0.8	1.35	1.46	1.2	MAX VEL	0.63	0.59	0.55	0.54	0.55	0.63	0.79	1.35	1.45	1.2	MAX VEL														
DEPTH	4.76	4.46	0.75	3.6	3.46	4.09	2.75	3.24	2.81	3.33	DEPTH	4.74	4.44	0.74	3.58	3.44	4.07	2.74	3.23	2.8	3.32	DEPTH														
TIME	29.98	29.98	20.04	29.98	29.98	30	20.38	18.29	17.66	18.89	TIME	29.83	29.82	20.08	29.99	30	30	20.4	18.3	17.68	18.92	TIME														
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
NODE	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	NODE	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	NODE	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110				
ELEVATION	157.5	157.53	157.56	157.59	157.63	157.68	158.41	159.71	158.23	158.96	ELEVATION	157.48	157.51	157.54	157.57	157.61	157.66	158.41	159.71	158.25	158.97	ELEVATION	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	-0.02	-0.01				
MAX DEPTH	4.56	3.58	2.69	2.26	1.62	0.9	0.02	0.04	17.45	18.73	MAX DEPTH	4.54	3.56	2.67	2.24	1.6	0.88	0.02	0.04	17.47	18.74	MAX DEPTH	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	-0.02	-0.01				
VELOCITY	0.89	0.63	0.49	0.38	0.28	0.18	0	0	3																											

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)														
PROP											EXIS											DIFF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160		2151	2152	2153	2154	2155	2156	2157	2158	2159	2160		2151	2152	2153	2154	2155	2156	2157	2158	2159	2160				
NODE	175.8	157.2	157.21	157.22	157.24	157.26	157.28	157.3	157.33	157.36	NODE	175.8	157.18	157.19	157.2	157.22	157.24	157.26	157.28	157.31	157.34	NODE	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
ELEVATION	0	5.08	4.69	3.83	3.57	3.92	4.49	5.9	6.91	6.59	ELEVATION	0	5.06	4.67	3.81	3.55	3.9	4.47	5.88	6.89	6.57	ELEVATION	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
MAX DEPTH	0	0.63	0.62	0.57	0.54	0.59	0.65	0.99	1.54	1.47	MAX DEPTH	0	0.63	0.62	0.56	0.54	0.58	0.64	0.98	1.54	1.46	MAX DEPTH	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
VELOCITY	0	29.98	29.98	30	30	30	30	30	30	30	VELOCITY	0	29.99	30	30	30	30	30	30	30	30	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
TIME	0	0.63	0.62	0.57	0.54	0.59	0.65	0.99	1.54	1.47	TIME	0	0.63	0.62	0.56	0.54	0.58	0.64	0.98	1.54	1.46	TIME	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
MAX VEL	0	5.08	4.69	3.83	3.57	3.92	4.49	3	2.54	2.28	MAX VEL	0	5.06	4.67	3.81	3.55	3.9	4.47	3	2.54	2.27	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
DEPTH	0	29.98	29.98	29.99	29.99	30	30	18.84	17.79	17.79	DEPTH	0	29.99	30	29.95	29.95	29.95	29.95	18.87	17.81	17.81	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
TIME											TIME											TIME														
	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170		2161	2162	2163	2164	2165	2166	2167	2168	2169	2170		2161	2162	2163	2164	2165	2166	2167	2168	2169	2170				
NODE	157.38	157.42	157.46	157.5	157.54	157.58	157.5	159.07	160.22	157.62	NODE	157.36	157.4	157.44	157.48	157.52	157.56	157.49	159.07	160.22	157.66	NODE	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	-0.04				
ELEVATION	5.86	4.28	3.39	2.53	2.03	1.47	0.05	0	0	17.94	ELEVATION	5.84	4.26	3.37	2.51	2.01	1.45	0.04	0	0	17.98	ELEVATION	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	-0.04				
MAX DEPTH	1.06	0.72	0.58	0.45	0.35	0.25	0	0	0	1.87	MAX DEPTH	1.06	0.71	0.58	0.45	0.35	0.24	0	0	0	1.85	MAX DEPTH	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	-0.04				
VELOCITY	30	30	30	30	30	30	30	0	0	29.98	VELOCITY	30	30	30	30	30	30	30	0	0	29.87	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04				
TIME	1.06	0.72	0.58	0.45	0.35	0.25	0	0	0	1.87	TIME	1.06	0.71	0.58	0.45	0.35	0.24	0	0	0	1.85	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04				
MAX VEL	3.18	2.56	3.39	2.53	2.03	1.47	0	0	0	17.93	MAX VEL	3.17	2.54	3.37	2.51	2.01	1.45	0	0	0	17.97	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04				
DEPTH	18.88	20.58	29.99	29.99	29.99	29.99	0	0	0	28.48	DEPTH	18.91	20.59	30	29.98	30	30	0	0	0	29.08	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.04				
TIME											TIME											TIME														
	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180		2171	2172	2173	2174	2175	2176	2177	2178	2179	2180		2171	2172	2173	2174	2175	2176	2177	2178	2179	2180				
NODE	158.89	158.86	158.87	158.94	159.02	159.11	159.27	159.46	159.57	159.61	NODE	158.9	158.86	158.88	158.95	159	159.11	159.26	159.46	159.55	159.6	NODE	-0.01	0.00	-0.01	-0.01	0.02	0.00	0.01	0.00	0.02	0.01				
ELEVATION	19.31	9.23	7.36	10.5	14.69	12.84	13.31	16.76	17.09	12.47	ELEVATION	19.32	9.23	7.37	10.51	14.67	12.84	13.3	16.76	17.07	12.46	ELEVATION	-0.01	0.00	-0.01	-0.01	0.02	0.00	0.01	0.00	0.02	0.01				
MAX DEPTH	1.82	2.96	1.59	1.51	1.58	1.83	2.37	2.43	1.75	1.34	MAX DEPTH	1.81	2.95	1.58	1.5	1.69	1.93	2.32	2.55	1.91	1.41	MAX DEPTH	-0.01	0.00	-0.01	-0.01	0.02	0.00	0.01	0.00	0.02	0.01				
VELOCITY	29.92	29.92	29.92	29.94	29.94	29.94	29.94	29.93	29.84	29.93	VELOCITY	29.98	29.98	29.98	29.78	29.74	29.77	29.91	29.96	29.79	29.81	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
TIME	1.82	2.96	1.59	1.51	1.58	1.83	2.37	2.43	1.75	1.34	TIME	1.81	2.95	1.58	1.5	1.69	1.93	2.32	2.55	1.91	1.41	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
MAX VEL	19.28	9.02	7.19	10.34	4.88	12.65	13.12	16.61	16.94	12.38	MAX VEL	19.29	9.03	7.29	10.42	12.92	12.71	13.13	16.63	16.99	12.33	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
DEPTH	25.95	20.61	21.34	21.48	9.18	20.76	20.75	21.31	21.2	22.91	DEPTH	25.85	20.51	23.8	23.2	14.2	22.28	21.04	21.77	23.13	21.77	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
TIME											TIME											TIME														
	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190		2181	2182	2183	2184	2185	2186	2187	2188	2189	2190		2181	2182	2183	2184	2185	2186	2187	2188	2189	2190				
NODE	159.66	159.75	159.76	159.78	159.81	159.85	159.87	159.9	159.93	159.95	NODE	159.66	159.7	159.75	159.78	159.81	159.84	159.87	159.89	159.91	159.93	NODE	0.00	0.05	0.01	0.00	0.00	0.01	0.00	0.01	0.02	0.02				
ELEVATION	9.71																																			

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	NODE	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	NODE	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240
ELEVATION	157.58	158.31	158.48	158.61	158.74	158.92	159.04	159.19	159.36	159.54	ELEVATION	157.61	158.33	158.49	158.62	158.75	158.92	159.03	159.18	159.35	159.48	ELEVATION	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240
MAX DEPTH	18.57	19.45	5.37	5.71	6.51	10.07	10.26	10.41	10.2	11.2	MAX DEPTH	18.6	19.47	5.38	5.72	6.52	10.07	10.25	10.4	10.19	11.14	MAX DEPTH	-0.03	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.06
VELOCITY	1.48	3.03	2.1	1.86	1.96	2.41	2.31	2.07	1.93	2.01	VELOCITY	1.46	3.02	2.09	1.85	1.94	2.38	2.21	2.04	1.89	1.83	VELOCITY	-0.03	-0.02	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.01	0.06
TIME	29.99	29.95	29.95	29.95	29.95	30	29.94	29.93	29.93	29.93	TIME	29.87	29.98	29.98	29.98	29.75	29.84	29.95	29.92	29.92	29.95	TIME										
MAX VEL	1.48	3.03	2.1	1.86	1.96	2.41	2.31	2.07	1.93	2.01	MAX VEL	1.46	3.02	2.09	1.85	1.94	2.38	2.21	2.04	1.89	1.83	MAX VEL										
DEPTH	18.56	19.26	5.2	5.54	6.36	9.88	10.07	10.23	10.04	11.05	DEPTH	18.6	19.24	5.23	5.54	6.34	9.86	10.07	10.23	10.02	11.02	DEPTH										
TIME	29.01	21.35	21.7	21.67	21.67	20.99	21	20.99	21.22	21.79	TIME	29.08	20.78	22.08	21.41	21.18	20.5	21.06	21.05	21.05	22.06	TIME										
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	NODE	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	NODE	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250
ELEVATION	159.56	159.62	159.67	159.74	159.76	159.79	159.82	159.84	159.87	159.89	ELEVATION	159.56	159.61	159.68	159.72	159.76	159.79	159.82	159.84	159.86	159.88	ELEVATION	0.00	0.01	-0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.01
MAX DEPTH	12.37	12.67	12.29	11.53	10.51	9.41	7.24	7.28	7.62	7.87	MAX DEPTH	12.37	12.66	12.3	11.51	10.51	9.41	7.24	7.28	7.61	7.86	MAX DEPTH	0.00	0.01	-0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.01
VELOCITY	1.39	1.45	1.12	0.94	0.81	0.58	0.54	0.6	0.78	0.85	VELOCITY	1.57	1.19	1.29	0.99	0.79	0.59	0.57	0.62	0.78	0.85	VELOCITY										
TIME	29.93	29.85	29.96	29.92	29.56	29.96	29.97	29.97	29.97	29.99	TIME	29.79	29.81	29.92	29.93	29.95	30	29.49	29.5	29.5	29.45	TIME										
MAX VEL	1.39	1.45	1.12	0.94	0.81	0.58	0.54	0.6	0.78	0.85	MAX VEL	1.57	1.19	1.29	0.99	0.79	0.59	0.57	0.62	0.78	0.85	MAX VEL										
DEPTH	1.97	12.5	11.35	2.41	2.94	3.26	7.21	1.29	1.54	1.81	DEPTH	12.25	12	12.24	2.53	2.9	4.08	7.23	3.4	1.54	1.8	DEPTH										
TIME	8.6	20.95	15.67	9.74	10.51	11.15	26.09	11.47	11.58	11.68	TIME	22.06	16.42	24.14	9.69	10.46	11.63	28.1	12.68	11.57	11.68	TIME										
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	NODE	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	NODE	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260
ELEVATION	159.91	159.94	159.98	160.01	160.05	161.49	160.04	160.59	162.24	170.88	ELEVATION	159.9	159.92	159.96	160	160.05	161.49	160.05	160.59	162.24	170.88	ELEVATION	0.01	0.02	0.02	0.01	0.00	0.00	-0.01	0.00	0.00	0.00
MAX DEPTH	7.93	7.97	8.27	7.73	2.37	0	0.24	0	0	0	MAX DEPTH	7.92	7.95	8.25	7.72	2.37	0	0.25	0	0	0	MAX DEPTH	0.01	0.02	0.02	0.01	0.00	0.00	-0.01	0.00	0.00	0.00
VELOCITY	1.05	1.1	0.96	0.59	0.27	0	0.03	0	0	0	VELOCITY	1.04	1.11	0.96	0.61	0.27	0	0.03	0	0	0	VELOCITY										
TIME	29.88	29.89	29.89	29.88	29.87	0	30	0	0	0	TIME	29.44	29.45	29.45	29.45	29.41	0	30	0	0	0	TIME										
MAX VEL	1.05	1.1	0.96	0.59	0.27	0	0.03	0	0	0	MAX VEL	1.04	1.11	0.96	0.61	0.27	0	0.03	0	0	0	MAX VEL										
DEPTH	2.06	2.31	3.05	7.73	1.77	0	0.24	0	0	0	DEPTH	2.05	2.33	3.06	7.72	1.72	0	0.25	0	0	0	DEPTH										
TIME	11.8	11.93	12.08	29.39	17.21	0	30	0	0	0	TIME	11.8	11.93	12.08	28.35	16.95	0	30	0	0	0	TIME										
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	NODE	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	NODE	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280
ELEVATION	184.66	178.43	178.03	157.09	157.1	157.11	157.12	157.14	157.16	157.18	ELEVATION	184.66	178.43	178.03	157.08	157.08	157.09	157.1	157.12	157.14	157.17	ELEVATION	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.01
MAX DEPTH	0	0	0	5.27	4.89	4.94	4	4.66	5.86	6.23	MAX DEPTH	0	0	0	5.26	4.87	4.92	3.98	4.64	5.84	6.22	MAX DEPTH	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.01
VELOCITY	0	0	0	0.64	0.66	0.61	0.57	0.7	0.88	0.96	VELOCITY	0	0	0	0.63	0.65	0.61	0.56	0.7	0.88	0.96	VELOCITY										
TIME	0	0	0	30	29.99	30	30	30	30	30	TIME	0	0	0	29.98	29.98	29.99	30	30	30	30	TIME										
MAX VEL	0	0	0	0.64	0.66	0.61	0.57	0.7	0.88	0.96	MAX VEL	0	0	0	0.63	0.65	0.61	0.56	0.7	0.88	0.96	MAX VEL										
DEPTH	0	0	0	5.27	1.21	4.94	4	2.15	3.43	3.87	DEPTH	0	0	0	5.26	1.21	1.42	3.98	2.14	3.42	3.86	DEPTH						</				

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	NODE	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	159.87	159.89	159.91	159.94	160.93	161.54	159.99	159.88	161.38	164.96	ELEVATION	159.86	159.88	159.9	159.92	160.93	161.54	159.99	159.88	161.38	164.96	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	8.13	9.18	8.4	5.96	0	0	0	0.02	0	0	MAX DEPTH	8.12	9.17	8.39	5.94	0	0	0	0.02	0	0	MAX DEPTH	0.01	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.83	1.37	1.06	0.63	0	0	0	0	0	0	VELOCITY	0.79	1.34	1.06	0.61	0	0	0	0	0	0	VELOCITY										
TIME	29.88	29.88	29.89	29.89	0	0	30	30	0	0	TIME	29.44	29.38	29.38	29.45	0	0	30	30	0	0	TIME										
MAX VEL	0.83	1.37	1.06	0.63	0	0	0	0	0	0	MAX VEL	0.79	1.34	1.06	0.61	0	0	0	0	0	0	MAX VEL										
DEPTH	1.42	3.28	3.8	5.95	0	0	0	0	0	0	DEPTH	1.4	3.26	3.8	5.94	0	0	0	0	0	0	DEPTH										
TIME	11.54	11.78	12.3	29.84	0	0	0	0	0	0	TIME	11.53	11.77	12.3	28.35	0	0	0	0	0	0	TIME										
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	NODE	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	NODE	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340
ELEVATION	185.3	206.29	190.78	184.08	157.05	157.05	157.06	157.06	157.08	157.1	ELEVATION	185.3	206.29	190.78	184.08	157.03	157.03	157.04	157.05	157.06	157.08	ELEVATION	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.01	0.02	0.02
MAX DEPTH	0	0	0	0	5.3	4.77	5.06	4.72	5.51	6.1	MAX DEPTH	0	0	0	0	5.28	4.75	5.04	4.71	5.49	6.08	MAX DEPTH	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.01	0.02	0.02
VELOCITY	0	0	0	0	0.68	0.65	0.65	0.64	0.76	0.9	VELOCITY	0	0	0	0	0.67	0.65	0.64	0.64	0.76	0.9	VELOCITY										
TIME	0	0	0	0	30	29.98	29.99	30	30	30	TIME	0	0	0	0	29.97	29.98	29.99	29.99	30	30	TIME										
MAX VEL	0	0	0	0	0.68	0.65	0.65	0.64	0.76	0.9	MAX VEL	0	0	0	0	0.67	0.65	0.64	0.64	0.76	0.9	MAX VEL										
DEPTH	0	0	0	0	5.3	1.13	5.05	1.22	2.89	3.53	DEPTH	0	0	0	0	5.28	1.12	5.04	1.22	2.88	3.51	DEPTH										
TIME	0	0	0	0	29.99	19.86	29.83	19.31	19.98	19.89	TIME	0	0	0	0	29.97	19.89	29.89	19.34	20.01	19.89	TIME										
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	NODE	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	NODE	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350
ELEVATION	157.13	157.15	157.18	157.21	157.24	157.29	157.84	159.61	160.69	159.4	ELEVATION	157.11	157.14	157.16	157.19	157.22	157.27	157.84	159.61	160.69	159.4	ELEVATION	0.02	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00
MAX DEPTH	6.45	7.15	6.93	5.08	3.67	2.55	0	0	0	0	MAX DEPTH	6.43	7.14	6.91	5.06	3.65	2.53	0	0	0	0	MAX DEPTH	0.02	0.01	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00
VELOCITY	0.98	1.59	1.29	0.68	0.57	0.43	0	0	0	0	VELOCITY	0.98	1.59	1.28	0.68	0.56	0.43	0	0	0	0	VELOCITY										
TIME	30	30	30	30	30	30	0	0	0	0	TIME	30	30	30	30	30	30	0	0	0	0	TIME										
MAX VEL	0.98	1.59	1.29	0.68	0.57	0.43	0	0	0	0	MAX VEL	0.98	1.59	1.28	0.68	0.56	0.43	0	0	0	0	MAX VEL										
DEPTH	1.96	2.61	2.41	5.07	3.67	2.55	0	0	0	0	DEPTH	1.96	2.61	2.4	5.06	3.65	2.53	0	0	0	0	DEPTH										
TIME	18.32	18.2	18.21	29.96	29.96	29.97	0	0	0	0	TIME	18.34	18.23	18.23	29.98	29.98	29.98	0	0	0	0	TIME										
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	NODE	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	NODE	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360
ELEVATION	157.08	157.2	157.2	157.49	157.77	157.98	158.19	158.43	158.66	159.07	ELEVATION	157.13	157.23	157.23	157.51	157.79	158	158.22	158.45	158.71	159.02	ELEVATION	-0.05	-0.03	-0.03	-0.02	-0.02	-0.02	-0.03	-0.02	-0.05	0.05
MAX DEPTH	21.11	19.92	13.96	6.18	7.3	9.14	11.54	12.17	10.61	12.19	MAX DEPTH	21.16	19.95	13.99	6.2	7.32	9.16	11.57	12.19	10.66	12.14	MAX DEPTH	-0.05	-0.03	-0.03	-0.02	-0.02	-0.02	-0.03	-0.02	-0.05	0.05
VELOCITY	2.69	1.05	3.24	1.81	1.73	2.23	2.64	2.98	2.8	2.68	VELOCITY	2.63	1.04	3.23	1.81	1.73	2.23	2.66	2.97	2.83	2.63	VELOCITY										
TIME	29.99	29.97	29.96	29.96	29.96	29.96	29.96	29.98	29.99	29.98	TIME	29.88	29.96	29.98	29.99	29.99	29.96	29.91	29.91	29.95	29.95	TIME										
MAX VEL	2.69	1.05	3.24	1.81	1.73	2.23	2.64	2.98	2.8	2.68	MAX VEL	2.63	1.04	3.23	1.81	1.73	2.23	2.66	2.97	2.83	2.63	MAX VEL										
DEPTH	21.11	19.89	13.64	5.89	7.1	8.93	11.33	11.94	10.4	12.03	DEPTH	21.16	19.93	13.68	5.91	7.1	8.94	11.35														

Segment O2
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	NODE	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	NODE	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420
ELEVATION	156.89	146.93	156.85	157.1	157.31	157.57	157.75	157.95	158.15	158.48	ELEVATION	156.95	146.93	156.88	157.14	157.34	157.59	157.77	157.97</													

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	NODE	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	199.19	156.88	156.88	156.88	156.89	156.9	156.92	156.95	156.97	156.99	ELEVATION	199.19	156.86	156.87	156.87	156.88	156.89	156.9	156.93	156.95	156.97	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0	5.39	5.47	6.09	6.4	6.77	6.91	6.95	6.29	4.32	MAX DEPTH	0	5.37	5.46	6.07	6.39	6.76	6.89	6.93	6.27	4.3	MAX DEPTH	0.00	0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.02	0.02
VELOCITY	0	0.64	0.83	0.83	1.04	1.18	1.28	1.09	0.95	0.75	VELOCITY	0	0.64	0.82	0.83	1.04	1.17	1.27	1.09	0.95	0.74	VELOCITY	0.00	0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.02	0.02
TIME	0	29.99	30	29.96	29.96	29.97	29.98	29.98	30	30	TIME	0	30	30	30	29.94	29.95	30	29.99	29.99	29.99	TIME										
MAX VEL	0	0.64	0.83	0.83	1.04	1.18	1.28	1.09	0.95	0.75	MAX VEL	0	0.64	0.82	0.83	1.04	1.17	1.27	1.09	0.95	0.74	MAX VEL										
DEPTH	0	5.39	1.77	2.35	2.32	2.6	2.48	2.73	2.15	4.32</																						

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)														
PROP											EXIS											DIFF		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	NODE	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	NODE	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600				
ELEVATION	158.99	159.13	159.15	159.3	159.54	159.68	159.69	159.7	159.71	159.72	ELEVATION	158.98	159.13	159.15	159.3	159.54	159.68	159.69	159.69	159.7	159.71	ELEVATION	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01				
MAX DEPTH	0.07	0.23	0.38	0.11	0.21	2.92	9.61	9.48	9.24	9.04	MAX DEPTH	0.06	0.23	0.38	0.11	0.21	2.92	9.61	9.47	9.23	9.03	MAX DEPTH	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01				
VELOCITY	0	0.03	0.08	0.03	0.11	0.41	0.99	1.04	1.09	1.18	VELOCITY	0	0.03	0.08	0.03	0.11	0.42	0.98	1.04	1.08	1.17	VELOCITY														
TIME	30	30	30	30	30	29.93	29.98	29.98	29.98	29.98	TIME	30	30	30	30	30	29.98	29.98	29.34	29.61	29.51	TIME														
MAX VEL	0	0.03	0.08	0.03	0.11	0.41	0.99	1.04	1.09	1.18	MAX VEL	0	0.03	0.08	0.03	0.11	0.42	0.98	1.04	1.08	1.17	MAX VEL														
DEPTH	0	0.23	0.28	0.11	0.21	2.92	2.28	1.99	2.15	2.19	DEPTH	0	0.23	0.27	0.11	0.21	2.91	2.28	1.99	2.15	2.18	DEPTH														
TIME	0	30	23.66	30	30	29.41	11.93	11.92	12.14	12.25	TIME	0	30	23.72	30	30	29.51	11.93	11.93	12.14	12.26	TIME														
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
NODE	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	NODE	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	NODE	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610				
ELEVATION	159.73	159.74	159.76	159.77	159.82	159.81	164.67	171.29	181.58	191.47	ELEVATION	159.73	159.74	159.75	159.77	159.81	159.81	164.67	171.29	181.58	191.47	ELEVATION	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00				
MAX DEPTH	8.9	8.78	8.98	6.63	0.5	0.54	0	0	0	0	MAX DEPTH	8.9	8.78	8.97	6.63	0.49	0.54	0	0	0	0	MAX DEPTH	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00				
VELOCITY	1.01	1.41	0.88	0.4	1.8	0.07	0	0	0	0	VELOCITY	1	1.39	0.88	0.39	1.79	0.07	0	0	0	0	VELOCITY														
TIME	29.26	29.26	29.75	29.28	30	30	0	0	0	0	TIME	29.34	29.35	29.35	29.36	29.37	29.38	0	0	0	0	TIME														
MAX VEL	1.01	1.41	0.88	0.4	1.8	0.07	0	0	0	0	MAX VEL	1	1.39	0.88	0.39	1.79	0.07	0	0	0	0	MAX VEL														
DEPTH	2.32	2.52	4.51	6.62	0.5	0.52	0	0	0	0	DEPTH	2.3	2.5	4.5	6.62	0.49	0.52	0	0	0	0	DEPTH														
TIME	12.35	12.44	12.73	27.89	30	26.45	0	0	0	0	TIME	12.35	12.44	12.73	28.92	29.37	26.79	0	0	0	0	TIME														
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
NODE	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	NODE	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	NODE	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630				
ELEVATION	156.78	156.78	156.78	156.77	156.75	156.71	156.68	156.64	156.33	157.25	ELEVATION	156.77	156.77	156.76	156.75	156.73	156.7	156.66	156.63	156.32	157.25	ELEVATION	0.01	0.01	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.00				
MAX DEPTH	5.75	5.79	5.77	5.77	5.75	5.71	5.42	4.03	1.18	0	MAX DEPTH	5.74	5.78	5.75	5.73	5.7	5.4	4.02	1.17	0	0	MAX DEPTH	0.01	0.01	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.00				
VELOCITY	0.62	0.89	0.91	0.86	1.15	1.6	1.84	2.04	1.24	0	VELOCITY	0.61	0.89	0.91	0.85	1.14	1.59	1.83	2.03	1.22	0	VELOCITY														
TIME	30	29.99	29.98	30	30	29.99	29.99	29.99	30	0	TIME	30	29.97	30	30	30	29.99	30	30	30	0	TIME														
MAX VEL	0.62	0.89	0.91	0.86	1.15	1.6	1.84	2.04	1.24	0	MAX VEL	0.61	0.89	0.91	0.85	1.14	1.59	1.83	2.03	1.22	0	MAX VEL														
DEPTH	1.71	1.83	2.09	5.77	5.75	5.71	5.42	4.03	1.18	0	DEPTH	1.71	1.83	2.08	5.75	5.73	5.7	5.4	4.02	1.17	0	DEPTH														
TIME	19.74	19.62	19.55	29.95	29.95	29.98	29.98	29.98	30	0	TIME	19.77	19.64	19.58	29.96	29.95	29.98	29.99	29.99	30	0	TIME														
																						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
NODE	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	NODE	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	NODE	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640				
ELEVATION	153.26	153.31	153.36	153.44	153.57	156.23	156.24	156.3	156.42	156.53	ELEVATION	153.25	153.3	153.35	153.43	153.57	156.24	156.28	156.34	156.45	156.56	ELEVATION	0.01	0.01	0.01	0.01	0.00	-0.01	-0.04	-0.04	-0.03	-0.03				
MAX DEPTH	5.94	7.17	6.32	5.63	21.57	22.83	21.07	9.62	8.34	9.21	MAX DEPTH	5.93	7.16	6.31	5.62	21.57	22.84	21.11	9.66	8.37	9.24	MAX DEPTH	0.01	0.01	0.01	0.01	0.00	-0.01	-0.04	-0.04	-0.03	-0.03				
VELOCITY	1.22	1.35	1.14	1.06	2.55	0.94	1.96	1.64	1.63	1.89	VELOCITY	1.22	1.35	1.14	1.05	2.54	0.92	1.96	1.85	1.64	1.89	VELOCITY														
TIME	29.98	29.96	29.96	29.99	29.99	29.85	29.85	29.99	30	30	TIME	30	30	29.93	29.99	29.95	28.36	29.76	29.76	29.99	29.99	TIME														
MAX VEL	1.22	1.35	1.14	1.06	2.55	0.94	1.96	1.64	1.63	1.89	MAX VEL	1.22	1.35	1.14	1.05	2.54	0.92	1.96	1.85	1.64	1.89	MAX VEL														
DEPTH	3.57	4.9	5.54	4.9	20.92	13.38	20.7	9.58	7.91	3.45	DEPTH	3.6	4.93																							

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)										DIFFERENCE (= PROPOSED - EXISTING)											
PROP											EXIS										DIFF											
NODE	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	NODE	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	155.53	153.17	153.21	153.25	153.31	153.37	153.44	156.18	156.17	156.2	ELEVATION	155.52	153.16	153.2	153.24	153.31	153.36	153.44	156.24	156.18	156.22	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0.54	6.72	7.42	7.4	6.91	6.32	20.22	21.81	15.4	10.33	MAX DEPTH	0.53	6.71	7.41	7.39	6.91	6.31	20.22	21.87	15.41	10.35	MAX DEPTH	0.01	0.01	0.01	0.01	0.00	0.01	0.00	-0.06	-0.01	-0.02
VELOCITY	0.7	1.52	1.6	1.46	1.25	1.14	2.2	1.69	1.92	1.48	VELOCITY	0.69	1.52	1.6	1.47	1.25	1.14	2.19	1.68	1.93	1.51	VELOCITY										
TIME	30	30	29.99	29.98	29.99	29.97	29.97	29.99	29.97	29.99	TIME	30	30	29.99	30	30	29.94	29.95	29.76	29.99	29.95	TIME										
MAX VEL	0.7	1.52	1.6	1.46	1.25	1.14	2.2	1.69	1.92	1.48	MAX VEL	0.69	1.52	1.6	1.47	1.25	1.14	2.19	1.68	1.93	1.51	MAX VEL										
DEPTH	0.54	3.62	4.62	4.99	4.51	3.81	19.52	21.41	14.98	10.04	DEPTH	0.53	3.64	4.62	5.01	4.54	3.81	19.53	21.66	15.02	10.35	DEPTH										
TIME	30	14.2	14.28	14.52	14.33	13.97	19.52	20.39	20.15	21.66	TIME	30	14.22	14.28	14.55	14.36	13.96	19.61	23.25	20.36	29.99	TIME										
NODE	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	NODE	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	156.26	156.36	156.45	156.51	156.51	158.97	158.97	159.04	159.07	159.15	ELEVATION	156.29	156.39	156.49	156.54	156.55	158.97	158.97	159.04	159.07	159.15	ELEVATION	-0.03	-0.03	-0.04	-0.03	-0.04	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	9.89	9.25	10.47	13.72	3.17	0	0.05	0.2	0.3	0.7	MAX DEPTH	9.92	9.28	10.51	13.75	3.21	0	0.05	0.2	0.3	0.7	MAX DEPTH	-0.03	-0.03	-0.04	-0.03	-0.04	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.59	1.75	1.98	2.87	1.23	0	0	0.16	0.19	0.25	VELOCITY	1.63	1.76	2.02	2.89	1.05	0	0	0.13	0.18	0.24	VELOCITY										
TIME	30	30	30	29.92	29.91	0	30	30	30	30	TIME	29.95	29.99	29.92	29.92	29.92	0	30	27.5	30	30	TIME										
MAX VEL	1.59	1.75	1.98	2.87	1.23	0	0	0.16	0.19	0.25	MAX VEL	1.63	1.76	2.02	2.89	1.05	0	0	0.16	0.18	0.24	MAX VEL										
DEPTH	9.57	3	10.11	4.44	3.17	0	0	0.2	0.3	0.7	DEPTH	9.92	3	10.16	4.46	3.21	0	0	0.2	0.3	0.7	DEPTH										
TIME	21.27	11.7	20.42	10.4	29.54	0	0	27.29	30	30	TIME	29.76	11.7	20.69	10.45	29.82	0	0	30	30	30	TIME										
NODE	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	NODE	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	159.24	159.33	159.41	159.57	159.65	159.68	159.68	159.65	159.57	159.52	ELEVATION	159.24	159.32	159.41	159.57	159.64	159.67	159.68	159.64	159.56	159.52	ELEVATION	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00
MAX DEPTH	1.27	1.34	1.43	2.81	4.49	5.4	4.74	1.61	1.27	1.2	MAX DEPTH	1.27	1.33	1.43	2.81	4.48	5.39	4.74	1.6	1.26	1.2	MAX DEPTH	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00
VELOCITY	0.38	0.53	0.62	1.14	1.19	1.07	0.91	0.5	0.65	0.88	VELOCITY	0.38	0.53	0.62	1.14	1.19	1.07	0.91	0.5	0.65	0.88	VELOCITY										
TIME	30	29.99	29.98	29.98	29.98	29.99	29.98	29.98	29.99	29.99	TIME	30	29.91	29.91	29.91	29.81	29.48	29.34	29.54	29.55	29.49	TIME										
MAX VEL	0.38	0.53	0.62	1.14	1.19	1.07	0.91	0.5	0.65	0.88	MAX VEL	0.38	0.53	0.62	1.14	1.19	1.07	0.91	0.5	0.65	0.88	MAX VEL										
DEPTH	1.27	1.34	1.43	2.81	4.49	5.4	4.74	1.61	1.27	1.2	DEPTH	1.27	1.33	1.43	2.81	4.48	5.39	4.74	1.6	1.26	1.2	DEPTH										
TIME	30	29.98	29.98	29.98	29.98	29.57	29.75	29.93	29.96	29.98	TIME	30	29.91	29.91	29.81	29.48	29.34	29.34	29.36	29.37	29.39	TIME										
NODE	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	NODE	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	224.31	229.97	156.72	156.71	156.69	156.65	156.52	156.01	155.17	153.43	ELEVATION	224.31	229.97	156.7	156.69	156.68	156.64	156.5	156	155.16	153.42	ELEVATION	0.00	0.00	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.01
MAX DEPTH	0	0	5.72	5.58	5.49	5.07	4.52	3.78	3.21	4.87	MAX DEPTH	0	0	5.7	5.56	5.48	5.06	4.5	3.77	3.2	4.86	MAX DEPTH	0.00	0.00	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.01
VELOCITY	0	0	1.02	0.9	0.74	1.26	1.96	3.3	2.96	1.7	VELOCITY	0	0	1.02	0.89	0.74	1.26	1.95	3.29	2.95	1.69	VELOCITY										
TIME	0	0	29.98	29.98	29.98	29.98	30	30	30	30	TIME	0	0	29.96	29.95	30	30	30	30	30	30	TIME										
MAX VEL	0	0	1.02	0.9	0.74	1.26	1.96	3.3	2.96	1.7	MAX VEL	0	0	1.02	0.89	0.74	1.26	1.95	3.29	2.95	1.69	MAX VEL										
DEPTH	0	0	2.1	2.04	1.62	5.07	4.52	3.78	3.21	4.87	DEPTH	0	0	2.1	2.04	1.62	5.06	4.5	3.77	3.2	4.86	DEPTH										
TIME	0	0	19.93	19.93	19.74	29.97	29.98	29.98	29.97	29.96	TIME	0	0	19.96	19.96	19.77	29.95	30	29.97	29.96	29.96	TIME										
NODE	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	NODE	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	153.12	153.12	153.16	153.2	153.26	153.33	153.36	156.07	156.08	156.09	ELEVATION	153.11	153.11	153.15	153.19	153.25	153.32	153.35	156.08	156.09	156.11	ELEVATION	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.01	-0.01	-0.02
MAX DEPTH	7.84	8.25	7.4	6.17	5.77	8.02	18.52	20.73	13.45	10.34	MAX DEPTH	7.83	8.24</																			

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)										DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS										DIFF										
NODE	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	NODE	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	153.07	153.09	153.13	153.18	153.25	153.3	155.93	155.94	155.97	156	ELEVATION	153.06	153.08	153.12	153.17	153.25	153.29	155.95	155.95	155.98	156.01	ELEVATION	0.01	0.01	0.01	0.01	0.00	0.01	-0.02	-0.01	-0.01
MAX DEPTH	7.01	6.66	5.27	5.18	6.36	17.76	19.7	12.5	10.39	10.87	MAX DEPTH	7	6.65	5.26	5.17	6.36	17.75	19.72	12.51	10.4	10.88	MAX DEPTH	0.01	0.01	0.01	0.01	0.00	0.01	-0.02	-0.01	-0.01
VELOCITY	1.7	1.37	1.13	1.15	1.1	2.1	1.77	2.1	1.58	1.7	VELOCITY	1.7	1.37	1.13	1.15	1.09	2.1	1.77	2.1	1.58	1.71	VELOCITY									
TIME	29.97	29.98	29.99	29.99	29.82	29.98	30	29.98	30	30	TIME	29.96	29.97	29.98	29.98	29.83	29.83	29.59	29.75	29.59	29.69	TIME									
MAX VEL	1.7	1.37	1.13	1.15	1.1	2.1	1.77	2.1	1.58	1.7	MAX VEL	1.7	1.37	1.13	1.15	1.09	2.1	1.77	2.1	1.58	1.71	MAX VEL									
DEPTH	3.38	3.49	4.25	4.34	5.57	17.02	19.38	12.48	10.07	10.49	DEPTH	3.41	3.5	4.26	4.35	5.6	17.03	19.38	12.14	10.07	10.52	DEPTH									
TIME	14.09	14.18	17.74	19.97	19.66	19.86	21.43	27.52	21.43	20.72	TIME	14.12	14.19	17.7	20.04	19.94	19.92	21.18	20.68	21.18	20.86	TIME									
NODE	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	NODE	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	156.05	156.1	156.15	156.16	158.03	158.16	158.07	158.24	158.34	158.35	ELEVATION	156.07	156.12	156.14	156.15	158.03	158.16	158.06	158.23	158.34	158.35	ELEVATION	-0.02	-0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.00
MAX DEPTH	8.79	10.07	12.28	6.32	0	0.1	0.25	0.28	0.34	0.47	MAX DEPTH	8.81	10.09	12.27	6.31	0	0.1	0.24	0.27	0.34	0.47	MAX DEPTH	-0.02	-0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.00
VELOCITY	1.53	1.69	2.24	0.6	0	0.05	0.19	0.24	0.31	0.45	VELOCITY	1.53	1.66	2.27	0.98	0	0.05	0.19	0.23	0.31	0.45	VELOCITY									
TIME	30	30	29.99	29.99	30	29.96	30	30	30	30	TIME	29.99	30	30	30	30	29.97	30	30	30	30	TIME									
MAX VEL	1.53	1.69	2.24	0.6	0	0.05	0.19	0.24	0.31	0.45	MAX VEL	1.53	1.66	2.27	0.98	0	0.05	0.19	0.23	0.31	0.45	MAX VEL									
DEPTH	8.45	9.71	4.02	6.32	0	0.1	0.25	0.28	0.34	0.47	DEPTH	8.81	9.71	4.05	6.31	0	0.1	0.24	0.27	0.34	0.47	DEPTH									
TIME	21.07	20.74	10.74	29.76	0	29.88	30	30	30	30	TIME	29.95	20.55	10.79	29.93	0	29.95	30	30	30	30	TIME									
NODE	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	NODE	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	158	158.02	158.11	158.37	158.57	158.63	158.85	158.74	158.83	158.98	ELEVATION	157.99	158.01	158.1	158.37	158.56	158.62	158.85	158.73	158.82	158.98	ELEVATION	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.00
MAX DEPTH	1.17	1.61	2.6	2.11	1.67	1.14	0.37	0.9	0.91	0.8	MAX DEPTH	1.16	1.6	2.59	2.11	1.66	1.13	0.37	0.89	0.9	0.8	MAX DEPTH	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.00
VELOCITY	0.78	0.87	1.28	1.63	1.17	0.73	0.32	1.11	0.95	0.42	VELOCITY	0.78	0.87	1.28	1.63	1.17	0.73	0.32	1.11	0.95	0.41	VELOCITY									
TIME	30	30	30	30	30	30	30	30	30	30	TIME	30	30	29.99	29.99	29.97	29.99	30	30	30	30	TIME									
MAX VEL	0.78	0.87	1.28	1.63	1.17	0.73	0.32	1.11	0.95	0.42	MAX VEL	0.78	0.87	1.28	1.63	1.17	0.73	0.32	1.11	0.95	0.41	MAX VEL									
DEPTH	1.17	1.61	2.6	2.11	1.67	1.14	0.37	0.54	0.51	0.8	DEPTH	1.16	1.6	2.59	2.11	1.66	1.13	0.37	0.54	0.51	0.8	DEPTH									
TIME	30	30	30	30	30	30	30	17.97	17.96	30	TIME	30	30	29.92	29.92	29.96	29.97	30	17.97	17.96	29.89	TIME									
NODE	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	NODE	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	160.53	169.99	203.06	197.29	187.08	209.6	226.61	231.38	156.66	156.66	ELEVATION	160.53	169.99	203.06	197.29	187.08	209.6	226.61	231.38	156.65	156.64	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
MAX DEPTH	0	0	0	0	0	0	0	0	4.92	4.57	MAX DEPTH	0	0	0	0	0	0	0	0	4.91	4.55	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02
VELOCITY	0	0	0	0	0	0	0	0	0.88	0.74	VELOCITY	0	0	0	0	0	0	0	0	0.88	0.74	VELOCITY									
TIME	0	0	0	0	0	0	0	0	30	30	TIME	0	0	0	0	0	0	0	0	30	30	TIME									
MAX VEL	0	0	0	0	0	0	0	0	0.88	0.74	MAX VEL	0	0	0	0	0	0	0	0	0.88	0.74	MAX VEL									
DEPTH	0	0	0	0	0	0	0	0	2.23	1.88	DEPTH	0	0	0	0	0	0	0	0	2.22	1.88	DEPTH									
TIME	0	0	0	0	0	0	0	0	20.35	20.36	TIME	0	0	0	0	0	0	0	0	20.38	20.39	TIME									
NODE	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	NODE	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	156.64	156.5	155.86	153.04	152.92	152.93	152.95	152.97	153	153.03	ELEVATION	156.63	156.49	155.85	153.03	152.91	152.92	152.94	152.96	152.99	153.02	ELEVATION	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MAX DEPTH	3.62	1.94	1	4.96	9.08	8.99	7.45	6.1	5.5	5.4	MAX DEPTH	3.61	1.93	0.99	4.95	9.07	8.98	7.44	6.09	5.49	5.39	MAX DEPTH	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
VELOCITY	0.49	0.73	1.21	1.44	2.16	2.32	1.74	1.37	1.1	1.19	VELOCITY	0.48	0.72	1.2	1.43	2.17	2.32	1.74	1.37	1.1	1.2	VELOCITY									
TIME	29.98	30	30	30	30	30	30	29.97	29.99	29.99	TIME	29.99	30	30	30	30	30	30	29.97	29.98	29.98	TIME									
MAX VEL	0.49	0.73	1.21	1.44	2.16	2.32	1.74	1.37	1.1																						

Segment O2
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)														
PROP											EXIS											DIFF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870		2861	2862	2863	2864	2865	2866	2867	2868	2869	2870		2861	2862	2863	2864	2865	2866	2867	2868	2869	2870				
NODE	222.69	198.87	202.9	156.64	156.63	156.59	156.35	155.67	152.77	152.77	NODE	222.69	198.87	202.9	156.63	156.62	156.58	156.34	155.66	152.76	152.76	NODE	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870				
ELEVATION	0	0	0	4.46	3.6	2.48	1.38	0.55	8.78	10.54	ELEVATION	0	0	0	4.45	3.59	2.47	1.37	0.54	8.77	10.53	ELEVATION	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
MAX DEPTH	0	0	0	0.75	0.55	0.52	0.92	0.78	1.35	2.95	MAX DEPTH	0	0	0	0.75	0.55	0.51	0.91	0.77	1.34	2.95	MAX DEPTH	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
VELOCITY	0	0	0	30	29.98	29.99	30	30	30	30	VELOCITY	0	0	0	30	29.98	30	30	30	30	30	VELOCITY														
TIME	0	0	0	0.75	0.55	0.52	0.92	0.78	1.35	2.95	TIME	0	0	0	0.75	0.55	0.51	0.91	0.77	1.34	2.95	TIME														
MAX VEL	0	0	0	2.27	1.45	2.48	1.38	0.55	8.77	2.24	MAX VEL	0	0	0	2.26	1.44	2.47	1.37	0.54	8.76	2.24	MAX VEL														
DEPTH	0	0	0	20.66	20.71	29.99	30	30	29.72	13.22	DEPTH	0	0	0	20.69	20.74	29.97	30	30	29.78	13.23	DEPTH														
TIME											TIME											TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
NODE	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	NODE	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	NODE	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880				
ELEVATION	152.8	152.83	152.86	152.89	152.92	152.97	153.01	147.55	155.73	155.74	ELEVATION	152.79	152.82	152.85	152.88	152.91	152.96	153.01	147.55	155.75	155.75	ELEVATION	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	-0.02	-0.01				
MAX DEPTH	9.22	7.01	5.67	5.67	4.98	5.38	15.27	0	17.74	17.27	MAX DEPTH	9.21	7	5.66	5.66	4.97	5.37	15.27	0	17.76	17.28	MAX DEPTH	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	-0.02	-0.01				
VELOCITY	2.24	1.29	1.13	1.09	1.02	1.28	2	0	1.91	2.02	VELOCITY	2.24	1.29	1.14	1.09	1.02	1.28	1.99	0	1.91	2.02	VELOCITY	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	-0.02	-0.01				
TIME	30	30	30	30	30	29.99	29.99	0	30	30	TIME	30	30	30	29.98	29.98	29.98	29.98	0	29.65	29.63	TIME														
MAX VEL	2.24	1.29	1.13	1.09	1.02	1.28	2	0	1.91	2.02	MAX VEL	2.24	1.29	1.14	1.09	1.02	1.28	1.99	0	1.91	2.02	MAX VEL														
DEPTH	2.14	1.32	1.57	2.69	4.96	3.28	15.27	0	17.7	17.26	DEPTH	2.14	1.32	1.57	2.7	4.97	3.28	15.27	0	17.73	17.27	DEPTH														
TIME	13.39	13.51	13.98	14.58	28.92	14.94	29.89	0	26.33	28.68	TIME	13.4	13.51	13.99	14.58	29.85	14.93	29.85	0	27.01	28.23	TIME														
NODE	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	NODE	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	NODE	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890				
ELEVATION	155.74	155.76	155.79	155.83	155.84	156.37	157.1	157.14	157	157.06	ELEVATION	155.76	155.77	155.8	155.85	155.87	156.37	157.1	157.14	156.99	157.06	ELEVATION	-0.02	-0.01	-0.01	-0.02	-0.03	0.00	0.00	0.00	0.01	0.00				
MAX DEPTH	11.4	11.7	11.12	10.91	7.87	0	0	0.1	0.26	0.2	MAX DEPTH	11.42	11.71	11.13	10.93	7.9	0	0	0.1	0.25	0.2	MAX DEPTH	-0.02	-0.01	-0.01	-0.02	-0.03	0.00	0.00	0.00	0.01	0.00				
VELOCITY	1.54	1.64	1.62	1.81	1.33	0	0	0.07	0.21	0.2	VELOCITY	1.5	1.64	1.63	1.82	1.38	0	0	0.07	0.21	0.19	VELOCITY														
TIME	30	30	30	29.92	29.91	0	30	29.97	27.16	29.92	TIME	29.7	29.69	29.69	29.71	29.96	0	30	29.97	27.29	29.5	TIME														
MAX VEL	1.54	1.64	1.62	1.81	1.33	0	0	0.07	0.21	0.2	MAX VEL	1.5	1.64	1.63	1.82	1.38	0	0	0.07	0.21	0.2	MAX VEL														
DEPTH	11.38	11.67	11.08	10.58	7.85	0	0	0.1	0.24	0.2	DEPTH	11.41	11.69	11.13	10.62	7.9	0	0	0.1	0.23	0.2	DEPTH														
TIME	26.76	26.76	26.88	21.41	27.93	0	0	29.74	30	29.96	TIME	28.23	27.56	29.12	21.5	29.95	0	0	29.92	30	29.99	TIME														
NODE	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	NODE	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	NODE	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900				
ELEVATION	156.69	156.48	156.72	156.97	157.16	157.39	157.53	157.72	157.87	157.99	ELEVATION	156.69	156.47	156.72	156.97	157.16	157.38	157.53	157.71	157.86	157.98	ELEVATION	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01				
MAX DEPTH	0.39	1.8	1.98	2.19	1.98	1.7	1.6	1.48	1.94	1.04	MAX DEPTH	0.39	1.79	1.98	2.19	1.98	1.69	1.6	1.47	1.93	1.03	MAX DEPTH	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01				
VELOCITY	0.31	0.77	0.89	0.98	1.1	0.95	0.96	0.78	2.47	0.36	VELOCITY	0.31	0.77	0.89	0.98	1.1	0.95	0.96	0.78	2.46	0.36	VELOCITY														
TIME	30	30	30	30	30	30	30	30	30	30	TIME	30	30	30	30	30	30	30	30	30	30	TIME														
MAX VEL	0.31	0.77	0.89	0.98	1.1	0.95	0.96	0.78	2.47	0.36	MAX VEL	0.31	0.77	0.89	0.98	1.1	0.95	0.96	0.78	2.46	0.36	MAX VEL														
DEPTH	0.39	1.8	1.98	2.19	1.98	1.7	1.6	1.48	1.94	0.78	DEPTH	0.39	1.79	1.98	2.19	1.98	1.69	1.6	1.47	1.93	0.78	DEPTH														
TIME	30	30	30	30	30	30	30	30	30	20.69	TIME	30	30	30	30	30	30	30	30	30	20.73	TIME														
NODE	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	NODE	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	NODE	2901	2902	2903	2904	2905	2906	2907	2908	2909					

Segment O2
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	NODE	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	157.44	157.98	157.98	162.77	171.01	213.69	222.2	226.29	156.58	156.52	ELEVATION	157.44	157.97	157.98	162.77	171.01	213.69	222.2	226.29	156.57	156.51	ELEVATION	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
MAX DEPTH	1.65	1.44	0.96	0	0	0	0	0	3.58	1.78	MAX DEPTH	1.65	1.43	0.96	0	0	0	0	0	3.57	1.77	MAX DEPTH	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
VELOCITY	0.81	1.47	0.26	0	0	0	0	0	0.59	0.42	VELOCITY	0.81	1.47	0.27	0	0	0	0	0	0.59	0.41	VELOCITY										
TIME	30	30	30	0	0	0	0	0	30	30	TIME	30	30	30	0	0	0	0	0	29.99	30	TIME										
MAX VEL	0.81	1.47	0.26	0	0	0	0	0	0.59	0.42	MAX VEL	0.81	1.47	0.27	0	0	0	0	0	0.59	0.41	MAX VEL										
DEPTH	1.65	0.69	0.5	0	0	0	0	0	2.3	1.78	DEPTH	1.65	0.7	0.5	0	0	0	0	0	2.29	1.77	DEPTH										
TIME	30	20.99	21.1	0	0	0	0	0	21.43	30	TIME	30	21.04	21.14	0	0	0	0	0	21.47	30	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	NODE	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	NODE	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960
ELEVATION	156.43	155.95	153.33	152.63	152.62	152.61	152.61	152.61	152.62	152.63	ELEVATION	156.42	155.95	153.32	152.63	152.61	152.6	152.6	152.6	152.61	152.62	ELEVATION	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01
MAX DEPTH	1.43	0.37	0.9	16	13.15	12.28	8.27	6.43	5.69	5.56	MAX DEPTH	1.42	0.37	0.89	16	13.14	12.27	8.26	6.42	5.68	5.55	MAX DEPTH	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01
VELOCITY	0.42	0.56	0.6	1.24	1.48	1.71	1.13	1.21	1.12	1.09	VELOCITY	0.41	0.55	0.59	1.24	1.49	1.71	1.12	1.21	1.12	1.09	VELOCITY										
TIME	29.99	30	30	30	30	29.93	30	29.9	29.9	29.91	TIME	30	30	30	29.79	29.95	29.98	29.97	29.96	29.85	29.86	TIME										
MAX VEL	0.42	0.56	0.6	1.24	1.48	1.71	1.13	1.21	1.12	1.09	MAX VEL	0.41	0.55	0.59	1.24	1.49	1.71	1.12	1.21	1.12	1.09	MAX VEL										
DEPTH	1.43	0.37	0.9	7.57	4.64	3.71	8.26	1.1	1.83	5.56	DEPTH	1.42	0.37	0.89	7.57	4.64	3.71	8.25	1.1	1.84	5.55	DEPTH										
TIME	29.99	30	29.89	13.6	13.59	13.59	29.75	13.64	14.13	29.66	TIME	30	30	29.97	13.61	13.6	13.6	29.97	13.65	14.13	29.86	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	NODE	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	NODE	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970
ELEVATION	152.64	152.65	152.69	151.53	155.57	155.57	155.54	155.54	155.53	155.52	ELEVATION	152.63	152.65	152.69	151.53	155.59	155.58	155.56	155.55	155.55	155.54	ELEVATION	0.01	0.00	0.00	0.00	-0.02	-0.01	-0.02	-0.01	-0.02	-0.02
MAX DEPTH	4.61	3.09	14.97	0	17.85	13.4	14.08	11.72	10.09	8.82	MAX DEPTH	4.6	3.09	14.97	0	17.87	13.41	14.1	11.73	10.11	8.84	MAX DEPTH	0.01	0.00	0.00	0.00	-0.02	-0.01	-0.02	-0.01	-0.02	-0.02
VELOCITY	1.09	0.94	1.54	0	2.17	2.08	1.74	1.59	1.34	1.26	VELOCITY	1.09	0.93	1.55	0	2.18	2.08	1.75	1.59	1.36	1.29	VELOCITY										
TIME	29.92	29.92	29.92	0	29.89	29.89	29.89	29.89	30	30	TIME	29.87	29.88	29.98	0	29.7	29.69	29.69	29.69	29.69	29.69	TIME										
MAX VEL	1.09	0.94	1.54	0	2.17	2.08	1.74	1.59	1.34	1.26	MAX VEL	1.09	0.94	1.55	0	2.18	2.08	1.75	1.59	1.36	1.29	MAX VEL										
DEPTH	4.61	3.09	13.44	0	17.84	13.39	14.08	11.7	10.07	8.79	DEPTH	4.6	3.09	13.44	0	17.85	13.4	14.1	11.73	10.07	8.83	DEPTH										
TIME	29.92	29.93	15.06	0	28.54	29.31	29.81	27.93	27.93	26.87	TIME	29.88	29.89	15.05	0	28.23	28.23	29.62	29.69	26.47	29.12	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	NODE	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	NODE	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980
ELEVATION	155.6	155.48	155.26	155.46	155.47	155.56	155.7	155.82	155.99	156.14	ELEVATION	155.6	155.47	155.26	155.46	155.47	155.55	155.7	155.82	155.98	156.14	ELEVATION	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
MAX DEPTH	0	0.02	0.13	0.2	0.39	1.59	1.77	2.11	2.12	3.16	MAX DEPTH	0	0.01	0.13	0.2	0.39	1.58	1.77	2.11	2.11	3.16	MAX DEPTH	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
VELOCITY	0	0	0.07	0.16	0.28	0.76	0.8	0.9	0.92	1.41	VELOCITY	0	0	0.07	0.15	0.28	0.76	0.8	0.9	0.92	1.41	VELOCITY										
TIME	30	30	30	29.97	28.72	30	30	30	30	30	TIME	30	30	30	29.97	28.86	30	30	30	30	30	TIME										
MAX VEL	0	0	0.07	0.16	0.28	0.76	0.8	0.9	0.92	1.41	MAX VEL	0	0	0.07	0.16	0.28	0.76	0.8	0.9	0.92	1.41	MAX VEL										
DEPTH	0	0	0.13	0.2	0.39	1.59	1.77	2.11	2.12	3.16	DEPTH	0	0	0.13	0.2	0.39	1.58	1.77	2.11	2.11	3.16	DEPTH										
TIME	0	0	30	29.93	28.64	30																										

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)													
PROP											EXIS											DIFF		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	NODE	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	NODE	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030			
ELEVATION	155.54	155.66	156.13	157.91	157.17	157.89	158.34	157.83	160.83	168.49	ELEVATION	155.54	155.66	156.13	157.91	157.17	157.89	158.34	157.83	160.83	168.49	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
MAX DEPTH	2.56	3.27	0.52	0	0	0	0	0.02	0	0	MAX DEPTH	2.56	3.27	0.52	0	0	0	0	0.02	0	0	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
VELOCITY	1.01	1.45	0.43	0	0	0	0	0	0	0	VELOCITY	1.01	1.44	0.43	0	0	0	0	0	0	0	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
TIME	30	29.99	30	0	0	30	0	30	0	0	TIME	30	29.99	30	0	0	30	0	30	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
MAX VEL	1.01	1.45	0.43	0	0	0	0	0	0	0	MAX VEL	1.01	1.44	0.43	0	0	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
DEPTH	2.56	3.27	0.52	0	0	0	0	0	0	0	DEPTH	2.56	3.27	0.52	0	0	0	0	0	0	0	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
TIME	29.97	30	30	0	0	0	0	0	0	0	TIME	29.97	30	30	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
NODE	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	NODE	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	NODE	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040			
ELEVATION	181.74	192.68	156.44	156.35	155.8	152.55	152.48	152.45	152.44	152.44	ELEVATION	181.74	192.68	156.43	156.34	155.79	152.54	152.47	152.44	152.43	152.43	ELEVATION	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
MAX DEPTH	0	0	2.02	1.69	1.16	3.95	6.67	6.45	6.84	10.55	MAX DEPTH	0	0	2.01	1.68	1.15	3.94	6.66	6.44	6.83	10.54	MAX DEPTH	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
VELOCITY	0	0	0.34	0.72	1.47	0.6	1.11	1.14	1.19	2.02	VELOCITY	0	0	0.34	0.71	1.46	0.59	1.11	1.14	1.18	2.02	VELOCITY	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
TIME	0	0	30	30	30	29.98	29.99	29.99	29.98	29.97	TIME	0	0	30	30	30	29.93	29.86	29.85	29.96	30	TIME	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
MAX VEL	0	0	0.34	0.72	1.47	0.6	1.11	1.14	1.19	2.02	MAX VEL	0	0	0.34	0.71	1.46	0.59	1.11	1.14	1.18	2.02	MAX VEL	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
DEPTH	0	0	2.02	1.69	1.16	3.95	6.67	6.45	6.84	2.71	DEPTH	0	0	2.01	1.68	1.15	3.93	6.66	6.44	6.83	2.72	DEPTH	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
TIME	0	0	29.99	30	30	29.98	29.86	29.86	29.98	13.81	TIME	0	0	29.99	30	30	29.89	29.86	29.85	29.76	13.81	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
NODE	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	NODE	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	NODE	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050			
ELEVATION	152.42	152.4	152.37	152.3	152.21	152.11	152.27	152.28	152.59	155.3	ELEVATION	152.41	152.39	152.36	152.29	152.21	152.1	152.26	152.27	152.59	155.31	ELEVATION	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	-0.01			
MAX DEPTH	12.05	5.83	5.12	4.31	3.71	7.72	4.43	1.02	17.47	20.18	MAX DEPTH	12.04	5.82	5.11	4.3	3.71	7.71	4.42	1.01	17.47	20.19	MAX DEPTH	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	-0.01			
VELOCITY	2.9	1.11	1.16	1.35	1.28	1.73	1.33	0.72	2.89	1.21	VELOCITY	2.9	1.11	1.16	1.34	1.28	1.73	1.33	0.71	2.88	1.22	VELOCITY	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	-0.01			
TIME	29.98	30	30	29.99	30	29.92	29.97	29.98	29.92	29.89	TIME	30	30	30	29.99	30	29.98	29.98	29.99	29.98	29.7	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
MAX VEL	2.9	1.11	1.16	1.35	1.28	1.73	1.33	0.72	2.89	1.21	MAX VEL	2.9	1.11	1.16	1.34	1.28	1.73	1.33	0.71	2.88	1.22	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
DEPTH	3.92	5.83	5.12	4.31	3.71	7.72	2.33	1.02	17.47	19.9	DEPTH	3.92	5.82	5.11	4.3	3.71	7.71	2.33	1.01	17.47	20.19	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
TIME	13.79	29.89	29.91	29.8	29.8	29.91	15.02	29.98	29.92	22.08	TIME	13.8	29.94	30	30	30	29.88	15.01	29.99	29.98	29.69	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
NODE	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060	NODE	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060	NODE	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060			
ELEVATION	155.36	155.35	155.36	155.38	155.17	154.65	154.43	154.49	154.64	154.79	ELEVATION	155.37	155.36	155.37	155.37	155.13	154.62	154.43	154.49	154.64	154.78	ELEVATION	-0.01	-0.01	-0.01	0.01	0.04	0.03	0.00	0.00	0.00	0.01			
MAX DEPTH	18.28	14.88	10.49	11.25	0.7	0.5	0.87	1.19	1.63	1.78	MAX DEPTH	18.29	14.89	10.5	11.24	0.66	0.47	0.87	1.19	1.63	1.77	MAX DEPTH	-0.01	-0.01	-0.01	0.01	0.04	0.03	0.00	0.00	0.00	0.01			
VELOCITY	2.17	1.61	1.44	1.4	0.35	0.23	0.3	0.4	0.55	0.7	VELOCITY	2.16	1.56	1.33	1.15	0.38	0.21	0.29	0.39	0.55	0.7	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
TIME	29.89	29.95	29.95	29.81	30	29.99	30	30	30	30	TIME	29.7	29.76	29.76	29.76																				

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	3251	3252	3253	3254	3255	3256	3257	3258	3259	3260	NODE	3251	3252	3253	3254	3255	3256	3257	3258	3259	3260	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	197.99	180.42	198.45	214.08	217.08	190.53	150.82	150.79	150.77	150.41	ELEVATION	197.99	180.42	198.45	214.08	217.08	190.53	150.81	150.78	150.76	150.41	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0	0	0	0	0	0	3.92	3.29	6.03	1.6	MAX DEPTH	0	0	0	0	0	0	3.91	3.28	6.02	1.6	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00
VELOCITY	0	0	0	0	0	0	2.41	2.47	2.94	1.42	VELOCITY	0	0	0	0	0	0	2.4	2.47	2.93	1.42	VELOCITY										
TIME	0	0	0	0	0	0	30	30	29.99	29.99	TIME	0	0	0	0	0	0	29.97	29.98	29.99	30	TIME										
MAX VEL	0	0	0	0	0	0	2.41	2.47	2.94	1.42	MAX VEL	0	0	0	0	0	0	2.4	2.47	2.93	1.42	MAX VEL										
DEPTH	0	0	0	0	0	0	3.92	3.29	6.03	1.6	DEPTH	0	0	0	0	0	0	3.91	3.28	6.02	1.6	DEPTH										
TIME	0	0	0	0	0	0	30	30	29.95	29.99	TIME	0	0	0	0	0	0	29.97	29.98	29.99	30	TIME										
NODE	3261	3262	3263	3264	3265	3266	3267	3268	3269	3270	NODE	3261	3262	3263	3264	3265	3266	3267	3268	3269	3270	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	149.67	149.65	149.82	149.87	149.68	149.08	143.74	143.39	143.21	144.28	ELEVATION	149.66	149.65	149.82	149.87	149.68	149.07	143.73	143.39	143.22	144.29	ELEVATION	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	-0.01
MAX DEPTH	3.49	6.28	6.73	4.46	2.57	0.45	1.23	1.02	1.78	1.98	MAX DEPTH	3.48	6.28	6.73	4.46	2.57	0.44	1.22	1.02	1.79	1.99	MAX DEPTH	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	-0.01	-0.01
VELOCITY	2.4	3.1	2.84	2.26	3.17	1.13	2.28	2.27	3.88	2.84	VELOCITY	2.4	3.1	2.84	2.26	3.16	1.13	2.28	2.28	3.9	2.85	VELOCITY										
TIME	29.96	29.99	29.99	29.99	30	30	30	30	30	17.69	TIME	30	29.99	29.99	29.99	30	30	30	30	30	17.63	TIME										
MAX VEL	2.4	3.1	2.84	2.26	3.17	1.13	2.28	2.27	3.88	2.84	MAX VEL	2.4	3.1	2.84	2.26	3.16	1.13	2.28	2.28	3.9	2.85	MAX VEL										
DEPTH	3.49	6.28	6.73	4.46	2.57	0.45	1.23	1.02	1.78	1.98	DEPTH	3.48	6.28	6.73	4.45	2.57	0.44	1.22	1.02	1.79	1.99	DEPTH										
TIME	29.96	29.99	29.99	30	30	30	30	30	30	17.69	TIME	30	29.99	29.99	30	30	30	30	30	30	17.63	TIME										
NODE	3271	3272	3273	3274	3275	3276	3277	3278	3279	3280	NODE	3271	3272	3273	3274	3275	3276	3277	3278	3279	3280	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	144.68	148.29	150.55	150.06	149.69	149.69	150.85	150.96	150.56	150.25	ELEVATION	144.69	148.33	150.57	150.1	149.71	149.7	150.85	150.96	150.56	150.25	ELEVATION	-0.01	-0.04	-0.02	-0.04	-0.02	-0.01	0.00	0.00	0.00	0.00
MAX DEPTH	16.89	20.5	0.2	0.94	1.34	1.37	0.73	0.8	1.22	3.33	MAX DEPTH	16.9	20.54	0.22	0.98	1.36	1.38	0.73	0.8	1.22	3.33	MAX DEPTH	-0.01	-0.04	-0.02	-0.04	-0.02	-0.01	0.00	0.00	0.00	0.00
VELOCITY	5.67	0	0.59	0.56	0.8	1.05	0.96	1.1	1.33	2.28	VELOCITY	5.67	0	0.63	0.58	0.81	1.06	0.97	1.1	1.33	2.28	VELOCITY										
TIME	17.69	17.69	30	30	30	30	30	30	30	30	TIME	17.63	17.64	30	30	30	30	30	30	30	30	TIME										
MAX VEL	5.96	0	0.59	0.56	0.8	1.05	0.96	1.1	1.33	2.28	MAX VEL	5.97	0	0.63	0.58	0.81	1.06	0.97	1.1	1.33	2.28	MAX VEL										
DEPTH	16.68	0	0.2	0.94	1.34	1.37	0.73	0.8	1.22	3.33	DEPTH	16.69	0	0.22	0.98	1.36	1.38	0.73	0.8	1.22	3.33	DEPTH										
TIME	30	0	30	30	30	30	30	30	30	30	TIME	29.99	0	30	30	30	30	30	30	30	30	TIME										
NODE	3281	3282	3283	3284	3285	3286	3287	3288	3289	3290	NODE	3281	3282	3283	3284	3285	3286	3287	3288	3289	3290	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	150.52	153.71	168	201.52	210.69	180.22	167.86	171.52	188.79	183.89	ELEVATION	150.52	153.71	168	201.52	210.69	180.22	167.86	171.52	188.79	183.89	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	3.92	0	0	0	0	0	0	0	0	0	MAX DEPTH	3.92	0	0	0	0	0	0	0	0	0	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.83	0	0	0	0	0	0	0	0	0	VELOCITY	1.83	0	0	0	0	0	0	0	0	0	VELOCITY										
TIME	30	0	0	0	0	0	0	0	0	0	TIME	30	0	0	0	0	0	0	0	0	0	TIME										
MAX VEL	1.83	0	0	0	0	0	0	0	0	0	MAX VEL	1.83	0	0	0	0	0	0	0	0	0	MAX VEL										
DEPTH	3.92	0	0	0	0	0	0	0	0	0	DEPTH	3.92	0	0	0	0	0	0	0	0	0	DEPTH										
TIME	30	0	0	0	0	0	0	0	0	0	TIME	30	0	0	0	0	0	0	0	0	0	TIME										
NODE	3291	3292	3293	3294	3295	3296	3297	3298	3299	3300	NODE	3291	3292	3293	3294	3295	3296	3297	3298	3299	3300	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	181.22	180.57	149.41	149.31	149.09	148.66	148.46	148.62	148.68	148.53	ELEVATION	181.22	180.57	149.4	149.31	149.08	148.66	148.45	148.61	148.68	148.53	ELEVATION	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.00
MAX DEPTH	0	0	2.41	2.97	2.45	2.98	5.18	5.22	3.92	1.58	MAX DEPTH	0	0	2.4	2.97	2.44	2.98	5.17	5.21	3.92	1.58	MAX DEPTH	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.00
VELOCITY	0	0	2.82	2.99	2.31	2.83	2.93	2.95	3.21	3.43	VELOCITY	0	0	2.81	2.98	2.3	2.82	2.93	2.95	3.2	3.42	VELOCITY										
TIME	0	0	30	30	30	29.98	29.99	29.99	29.99	30	TIME	0	0	30	30	30	30	30	29.99	29.99	30	TIME										
MAX VEL	0	0	2.82	2.99	2.31	2.83	2.93	2.95	3.21	3.43	MAX VEL	0	0	2.81	2.98	2.3	2.82	2.93	2.95	3.2	3.42	MAX VEL										
DEPTH	0	0																														

Segment 02
TABLE 2A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (= PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	3331	3332	3333	3334	3335	3336	3337	3338	3339	3340	NODE	3331	3332	3333	3334	3335	3336	3337	3338	3339	3340	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	146.99	146.56	147.49	147.8	146.72	145.58	130.07	132.56	136.55	136.6	ELEVATION	146.99	146.56	147.48	147.8	146.72	145.58	130.07	132.56	136.55	136.6	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	2.8	3.53	4.46	4.77	3.57	2.1	1.2	1.38	1.97	2.6	MAX DEPTH	2.8	3.53	4.45	4.77	3.57	2.1	1.2	1.38	1.97	2.6	MAX DEPTH	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY										
TIME	30	29.98	29.98	29.99	29.99	29.99	30	30	30	30	TIME	30	30	30	29.99	29.99	29.99	30	30	30	30	TIME										
MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL										
DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH										
TIME	0	0	0	0	0	0	0	0	0	0	TIME	0	0	0	0	0	0	0	0	0	0	TIME										
NODE	3341	3342	3343	3344	3345	3346	3347	3348	3349	3350	NODE	3341	3342	3343	3344	3345	3346	3347	3348	3349	3350	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	135.51	134.01	138.19	142.9	142.74	148.49	147.85	147.4	146.9	147.41	ELEVATION	135.51	134.01	138.2	142.91	142.75	148.51	147.86	147.41	146.91	147.41	ELEVATION	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.01	-0.01	-0.01	0.00
MAX DEPTH	3.62	8.59	12.77	16.48	16.32	0.55	0.76	1.15	1.56	1.97	MAX DEPTH	3.62	8.59	12.78	16.49	16.33	0.57	0.77	1.16	1.57	1.97	MAX DEPTH	0.00	0.00	-0.01	-0.01	-0.01	-0.02	-0.01	-0.01	-0.01	0.00
VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY										
TIME	30	6.61	17.68	17.68	17.68	30	30	30	30	30	TIME	30	6.61	17.63	17.63	17.63	30	30	30	30	30	TIME										
MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL										
DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH										
TIME	0	0	0	0	0	0	0	0	0	0	TIME	0	0	0	0	0	0	0	0	0	0	TIME										
NODE	3351	3352	3353	3354	3355	3356	3357	3358	3359	3360	NODE	3351	3352	3353	3354	3355	3356	3357	3358	3359	3360	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	146.57	146.85	148.61	149.13	156.03	156.7	154.97	153.9	154.43	155.67	ELEVATION	146.56	146.84	148.61	149.12	156.03	156.7	154.97	153.9	154.43	155.67	ELEVATION	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	2.19	2.02	1.84	1.61	0	0	0	0	0	0	MAX DEPTH	2.18	2.01	1.84	1.6	0	0	0	0	0	0	MAX DEPTH	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY										
TIME	30	30	30	30	0	0	0	0	0	0	TIME	30	30	30	30	0	0	0	0	0	0	TIME										
MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL										
DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH										
TIME	0	0	0	0	0	0	0	0	0	0	TIME	0	0	0	0	0	0	0	0	0	0	TIME										

FME006440

Segment 02

TABLE 2B: DEFLECTION CALCULATIONS

Floodplain C/S	Fplain Q (cfs)	Peak Flow				Impact in US			Impact in Mexico	
		Existing Cond Channel Q (cfs)	Total Q (cfs)	Fplain Q (cfs)	Proposed Cond Channel Q (cfs)	Total Q (cfs)	Q (cfs)	%	Q (cfs)	%
1	90817.02	0	90817.02	89955	0	89955.00	-862.02	-0.95%		
2	64494.45	96495.36	112742.13	63433.53	96925.48	111896.27	-845.86	-0.75%		
3	58535.83	96474.17	106772.92	55931.77	97243.9	104553.72	-2219.20	-2.08%		
4	26547.91	119771.62	86433.72	25434.81	119281.72	85075.67	-1358.05	-1.57%		
5	44494.3	104139.8	96564.20	44081.14	103935.45	96048.87	-515.34	-0.53%		
6	62743.59	0	62743.59	62313.52	0	62313.52	-430.07	-0.69%		
7	6463.62	0	6463.62	6503.45	0	6503.45	39.83	0.62%		
8	70328.68	129902.61	135279.99	69741.2	130187.96	134835.18	-444.80	-0.33%		
9	43782.39	144172.14	115868.46	43589.56	144298.92	115739.02	-129.44	-0.11%		
10	7700.01	161657.66	88528.84	7650.34	161755.16	88527.92	-0.92	0.00%		
11	26557.56	125371.09	89243.11	27127.55	125075.92	89665.51			422.40	0.47%
12	43250.09	110398.72	98449.45	43837.97	110345.01	99010.48			561.03	0.57%
13	19594.33	0	19594.33	19782.71	0	19782.71			188.38	0.96%
14	18276.58	0	18276.58	18420.98	0	18420.98			144.40	0.79%
15	52806.27	0	52806.27	53280.25	0	53280.25			473.98	0.90%
16	33620.03	129902.61	98571.34	34004.14	130187.96	99098.12			526.79	0.53%
17	20582.61	0	20582.61	20773.78	0	20773.78			191.17	0.93%
18	18833.84	125330.56	81499.12	18945.14	125576.55	81733.42			234.30	0.29%
19	45991.67	144172.14	118077.74	46133.93	144298.92	118283.39			205.65	0.17%
20	68113.24	161657.66	148942.07	68140.02	161755.16	149017.60			75.53	0.05%

FME006441

Segment 03

TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	1	2	3	4	5	6	7	8	9	10	NODE	1	2	3	4	5	6	7	8	9	10	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	127.12	128.38	130.85	132.56	132.95	133.09	133.17	134.38	134.21	135.25	ELEVATION	127.12	128.38	130.85	132.56	132.95	133.09	133.17	134.29	134.2	135.25	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.01	0.00
MAX DEPTH	0	0	0	0	0	0	0	1.42	0.01	0	MAX DEPTH	0	0	0	0	0	0	0	1.33	0	0	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.01	0.00
VELOCITY	0	0	0	0	0	0	0	0.04	0	0	VELOCITY	0	0	0	0	0	0	0	0.02	0	0	VELOCITY										
TIME	0	0	0	0	0	0	0	24	24	0	TIME	0	0	0	0	0	0	0	23.99	24	0	TIME										
MAX VEL	0	0	0	0	0	0	0	0.04	0	0	MAX VEL	0	0	0	0	0	0	0	0.02	0	0	MAX VEL										
DEPTH	0	0	0	0	0	0	0	1.42	0	0	DEPTH	0	0	0	0	0	0	0	1.33	0	0	DEPTH										
TIME	0	0	0	0	0	0	0	24	0	0	TIME	0	0	0	0	0	0	0	24	0	0	TIME										
NODE	21	22	23	24	25	26	27	28	29	30	NODE	21	22	23	24	25	26	27	28	29	30	NODE	21	22	23	24	25	26	27	28	29	30
ELEVATION	142.21	143.98	142.87	142.65	143.22	140.52	140.31	140.33	140.4	140.46	ELEVATION	142.21	143.98	142.87	142.65	143.22	140.52	140.3	140.32	140.4	140.45	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01
MAX DEPTH	0	0	0	0	0	0	3.81	4.46	12.41	20.07	MAX DEPTH	0	0	0	0	0	0	3.8	4.45	12.41	20.06	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01
VELOCITY	0	0	0	0	0	0	0.45	0.57	1.32	1.92	VELOCITY	0	0	0	0	0	0	0.45	0.57	1.32	1.92	VELOCITY										
TIME	0	0	0	0	0	0	22.63	22.63	22.62	22.62	TIME	0	0	0	0	0	0	21.84	21.84	21.84	21.83	TIME										
MAX VEL	0	0	0	0	0	0	0.45	0.57	1.32	1.92	MAX VEL	0	0	0	0	0	0	0.45	0.57	1.32	1.92	MAX VEL										
DEPTH	0	0	0	0	0	0	3.81	4.44	3.7	8.24	DEPTH	0	0	0	0	0	0	3.8	4.37	3.7	8.24	DEPTH										
TIME	0	0	0	0	0	0	17	15.2	1.96	1.67	TIME	0	0	0	0	0	0	19.23	13.31	1.96	1.67	TIME										
NODE	31	32	33	34	35	36	37	38	39	40	NODE	31	32	33	34	35	36	37	38	39	40	NODE	31	32	33	34	35	36	37	38	39	40
ELEVATION	140.5	140.58	140.69	140.86	141.08	141.34	141.64	142.01	142.54	142.77	ELEVATION	140.49	140.57	140.68	140.85	141.07	141.32	141.62	141.98	142.51	142.75	ELEVATION	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.02
MAX DEPTH	19.16	15.28	15.1	15.49	16.51	16.95	17.19	16.77	17.33	19.27	MAX DEPTH	19.15	15.27	15.09	15.48	16.5	16.93	17.17	16.74	17.3	19.25	MAX DEPTH	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.02
VELOCITY	2.32	1.68	1.95	2.44	2.79	3.19	3.52	3.81	3.81	2.46	VELOCITY	2.32	1.68	1.95	2.43	2.8	3.18	3.5	3.76	3.81	2.46	VELOCITY										
TIME	22.62	20.48	23.54	23.54	23.54	21.62	21.62	23.77	23.56		TIME	21.83	21.83	23.94	23.94	23.94	23	23	21.81	21.83		TIME										
MAX VEL	2.32	1.68	1.95	2.44	2.79	3.19	3.52	3.81	3.81	2.46	MAX VEL	2.32	1.68	1.95	2.43	2.8	3.18	3.5	3.76	3.81	2.46	MAX VEL										
DEPTH																																

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (PROPOSED - EXISTING)											
PROP											EXIS											DIFF											
NODE	91	92	93	94	95	96	97	98	99	100	NODE	91	92	93	94	95	96	97	98	99	100	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	141.92	141.9	128	130.81	132.56	133.58	133	132.38	133.23	132.28	ELEVATION	141.92	141.9	128	130.81	132.56	133.58	133	132.38	133.23	132.28	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	13.93	3.01	0	0	0	0	0	0	0	0	MAX DEPTH	13.93	3.01	0	0	0	0	0	0	0	0	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.66	0.64	0	0	0	0	0	0	0	0	VELOCITY	1.65	0.63	0	0	0	0	0	0	0	0	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	22.38	22.38	0	0	0	0	0	0	0	0	TIME	21.82	21.6	0	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	1.66	0.64	0	0	0	0	0	0	0	0	MAX VEL	1.65	0.63	0	0	0	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	13.71	3.01	0	0	0	0	0	0	0	0	DEPTH	13.69	3.01	0	0	0	0	0	0	0	0	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	12.12	20.5	0	0	0	0	0	0	0	0	TIME	12.06	19.95	0	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	101	102	103	104	105	106	107	108	109	110	NODE	101	102	103	104	105	106	107	108	109	110	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	134.4	134.23	134.2	134.63	135.45	135.4	135.46	136.24	137.24	138.6	ELEVATION	134.3	134.06	134.2	134.63	135.45	135.4	135.46	136.24	137.24	138.6	ELEVATION	0.10	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	1.73	0.22	0	0	0	0	0	0	0	0	MAX DEPTH	1.63	0.05	0	0	0	0	0	0	0	0	MAX DEPTH	0.10	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.5	0.02	0	0	0	0	0	0	0	0	VELOCITY	0.48	0	0	0	0	0	0	0	0	0	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	23.97	24	24	0	0	0	0	0	0	0	TIME	24	24	24	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0.5	0.02	0	0	0	0	0	0	0	0	MAX VEL	0.48	0	0	0	0	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	1.04	0.22	0	0	0	0	0	0	0	0	DEPTH	1.01	0	0	0	0	0	0	0	0	0	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	20.22	24	0	0	0	0	0	0	0	0	TIME	20.57	0	0	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	111	112	113	114	115	116	117	118	119	120	NODE	111	112	113	114	115	116	117	118	119	120	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	139.78	139.99	142.39	141.6	140.06	140.38	141.43	141.76	142.97	140.21	ELEVATION	139.78	139.99	142.39	141.6	140.06	140.38	141.43	141.76	142.97	140.2	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
MAX DEPTH	0	0	0	0	0	0	0	0	0	2.29	MAX DEPTH	0	0	0	0	0	0	0	0	0	2.28	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
VELOCITY	0	0	0	0	0	0	0	0	0	0.67	VELOCITY	0	0	0	0	0	0	0	0	0	0.67	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
TIME	0	0	0	0	0	0	0	0	0	23.57	TIME	0	0	0	0	0	0	0	0	0	21.85	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0	0	0	0	0	0	0	0	0	0.67	MAX VEL	0	0	0	0	0	0	0	0	0	0.67	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0	0	0	0	0	0	0	0	0	2.29	DEPTH	0	0	0	0	0	0	0	0	0	2.28	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0	0	0	0	0	0	0	0	0	23.6	TIME	0	0	0	0	0	0	0	0	0	18.81	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	121	122	123	124	125	126	127	128	129	130	NODE	121	122	123	124	125	126	127	128	129	130	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	140.19	140.21	140.28	140.38	140.53	140.64	140.77	140.94	141.19	141.51	ELEVATION	140.19	140.2	140.27	140.37	140.52	140.63	140.76	140.93	141.18	141.5	ELEVATION	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MAX DEPTH	8.52	12.28	11.13	10.05	14.83	15.55	14.89	13.05	10.03	9.49	MAX DEPTH	8.52	12.27	11.12	10.04	14.82	15.54	14.88	13.04	10.02	9.48	MAX DEPTH	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
VELOCITY	1.81	2.15	1.98	1.89	2.09	1.99	2.1	2.16	2.24	2.42	VELOCITY	1.81	2.15	1.98	1.89	2.09	1.99	2.09	2.16	2.24	2.42	VELOCITY	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TIME	23.57	22.62	22.62	22.61	22.61	20.48	23.54	23.54	23.55	23.55	TIME	21.83	21.83	21.83	21.81	21.83	23.94	23.94	23.94	23.94	23	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	1.81	2.15	1.98	1.89	2.09	1.99	2.1	2.16	2.24	2.42	MAX VEL	1.81	2.15	1.98	1.89	2.09	1.99	2.09	2.16	2.24	2.42	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	8.33	3.83	10.85	9.8	14.58	15.32	14.25	12.8	9.8	9.26	DEPTH	8.37	3.83	10.82	9.77	14.53	15.28	14.58	12.75	9.75	9.23	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	12.48	2.09	12.16	12.22	12.2	12.22	11.41	12.16	12.16	12.14	TIME	12.69	2.09	12.08	12.15	12.07	12.12	12.03	12.03	12.05	12.05	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	131	132	133	134	135	136	137	138	139	140	NODE	131	132	133	134	135	136	137	138	139	140	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	141.87	142.31	142.32	142.43	142.23	142.01	141.9	141.84	141.8	130.64	ELEVATION	141.86	142.32	142.34	142.41	142.22	142.01	141.89	141.83	141.8	130.64	ELEVATION	0.01	-0.01	-0.02	0.02	0.01	0.00	0.01	0.01	0.00	0.00	0.00
MAX DEPTH	11.59	18.49	19.32	18.85	15.77	10.86	13.03	13.55	13.02	0	MAX DEPTH	11.58	18.5	19.34	18.83	15.76	10.86	13.02	13.54	13.02	0	MAX DEPTH	0.01	-0.01	-0.02	0.02	0.01	0.00	0.01	0.01	0.00	0.00	0.00
VELOCITY	2.63	3.59	5.31	4.18	2.52	1.75	1.74	1.61	1.2	0	VELOCITY	2.63	3.49	5.31	4.18	2.51	1.74	1.72	1.61	1.19	0	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	23.54	23.54	23.55	23.78	23.56	23.32	22.37	23.31	23.31	0	TIME	23	21.8	21.8	21.8	21.83	21.83	23.47	23.47	21.35	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL																																	

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	181	182	183	184	185	186	187	188	189	190	NODE	181	182	183	184	185	186	187	188	189	190	NODE	181	182	183	184	185	186	187	188	189	190
ELEVATION	142.01	141.96	141.86	141.79	141.76	141.75	131.81	132.62	133.93	132.87	ELEVATION	142.03	141.96	141.86	141.79	141.76	141.75	131.81	132.62	133.93	132.87	ELEVATION	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	18.34	10.35	11.4	12.9	14.52	14.78	0	0	0	0	MAX DEPTH	18.36	10.35	11.4	12.9	14.52	14.78	0	0	0	0	MAX DEPTH	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	3.25	2.08	1.92	1.67	1.64	1.49	0	0	0	0	VELOCITY	3.25	2.08	1.91	1.66	1.64	1.51	0	0	0	0	VELOCITY	0	0	0	0	0	0	0	0	0	0
TIME	23.3	23.34	20.96	20.96	23.31	23.31	0	0	0	0	TIME	21.8	21.83	21.83	23.47	19.94	21.35	0	0	0	0	TIME	0	0	0	0	0	0	0	0	0	0
MAX VEL	3.25	2.08	1.92	1.67	1.64	1.49	0	0	0	0	MAX VEL	3.25	2.08	1.91	1.66	1.64	1.51	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0
DEPTH	18.11	10.13	11.18	12.78	14.49	14.54	0	0	0	0	DEPTH	18.11	10.14	11.18	12.79	14.46	14.66	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0
TIME	12.01	12.11	12.12	12.64	14.12	12.13	0	0	0	0	TIME	12.01	12.13	12.13	12.68	13.36	12.65	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	191	192	193	194	195	196	197	198	199	200	NODE	191	192	193	194	195	196	197	198	199	200	NODE	191	192	193	194	195	196	197	198	199	200
ELEVATION	132.05	132.39	133.02	134.42	134.42	134.41	134.19	134.64	135.59	136.65	ELEVATION	132.05	132.39	133.02	134.33	134.32	134.31	134.16	134.64	135.59	136.65	ELEVATION	0.00	0.00	0.00	0.09	0.10	0.10	0.03	0.00	0.00	0.00
MAX DEPTH	0	0	0	1.84	0.87	0.97	0.09	0	0	0	MAX DEPTH	0	0	0	1.75	0.77	0.87	0.06	0	0	0	MAX DEPTH	0.00	0.00	0.00	0.09	0.10	0.10	0.03	0.00	0.00	0.00
VELOCITY	0	0	0	0.89	0.13	0.13	0	0	0	0	VELOCITY	0	0	0	0.86	0.12	0.13	0	0	0	0	VELOCITY	0	0	0	0	0	0	0	0	0	0
TIME	0	0	0	23.98	24	24	24	0	0	0	TIME	0	0	0	23.99	24	24	24	0	0	0	TIME	0	0	0	0	0	0	0	0	0	0
MAX VEL	0	0	0	0.89	0.13	0.13	0	0	0	0	MAX VEL	0	0	0	0.86	0.12	0.13	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0
DEPTH	0	0	0	0.92	0.35	0.77	0	0	0	0	DEPTH	0	0	0	0.89	0.33	0.78	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0
TIME	0	0	0	18.43	20.89	22.71	0	0	0	0	TIME	0	0	0	18.66	21.32	23.37	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	201	202	203	204	205	206	207	208	209	210	NODE	201	202	203	204	205	206	207	208	209	210	NODE	201	202	203	204	205	206	207	208	209	210
ELEVATION	136.99	136.44	136.87	136.29	136.29	136.2	138.6	139.98	141.96	141.57	ELEVATION	136.99	136.44	136.87	136.27	136.28	136.2	138.6	139.98	141.96	141.57	ELEVATION	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0	0	0	0.26	0.8	0.02	0	0	0	0	MAX DEPTH	0	0	0	0.24	0.79	0.02	0	0	0	0	MAX DEPTH	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00
VELOCITY	0	0	0	0.03	0.08	0	0	0	0	0	VELOCITY	0	0	0	0.03	0.07	0	0	0	0	0	VELOCITY	0	0	0	0	0	0	0	0	0	0
TIME	0	0	0	24	24	24	0	0	0	0	TIME	0	0	0	23.07	23.07	24	0	0	0	0	TIME	0	0	0	0	0	0	0	0	0	0
MAX VEL	0	0	0	0.03	0.08	0	0	0	0	0	MAX VEL	0	0	0	0.03	0.07	0	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0
DEPTH	0	0	0	0.26	0.79	0	0	0	0	0	DEPTH	0	0	0	0.24	0.78	0	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0
TIME	0	0	0	20.91	17.49	0	0	0	0	0	TIME	0	0	0	23.11	18.22	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	211	212	213	214	215	216	217	218	219	220	NODE	211	212	213	214	215	216	217	218	219	220	NODE	211	212	213	214	215	216	217	218	219	220
ELEVATION	140.78	138.86	138.95	139.49	139.69	139.81	139.95	140.08	140.22	140.36	ELEVATION	140.78	138.86	138.95	139.49	139.68	139.8	139.94	140.07	140.22	140.35	ELEVATION	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01
MAX DEPTH	0	0.03	0.31	0.35	9.77	11.72	10.13	10.69	10.09	12.07	MAX DEPTH	0	0.03	0.31	0.35	9.76	11.71	10.12	10.68	10.09	12.06	MAX DEPTH	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01
VELOCITY	0	0	0.19	0.26	2.87	2.86	2.35	2.3	2.11	2.22	VELOCITY	0	0	0.18	0.26	2.87	2.86	2.35	2.29	2.11	2.22	VELOCITY	0	0	0	0	0	0	0	0	0	0
TIME	0	24	20.56	20.53	20.5	20.43	20.43	22.58	23.14	22.6																						

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	341	342	343	344	345	346	347	348	349	350	NODE	341	342	343	344	345	346	347	348	349	350	NODE	341	342	343	344	345	346	347	348	349	350
ELEVATION	136	136.19	136.23	136.26	136.31	136.43	136.61	136.85	137.12	137.42	ELEVATION	136	136.18	136.21	136.24	136.3	136.41	136.59	136.83	137.1	137.4	ELEVATION	0.00	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02
MAX DEPTH	0.3	3.22	10.44	10.15	9.76	10.33	10.32	9.6	10.39	11.33	MAX DEPTH	0.3	3.21	10.42	10.13	9.75	10.31	10.3	9.58	10.37	11.31	MAX DEPTH	0.00	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02
VELOCITY	0.18	1.07	0.99	1.12	1.25	1.49	1.99	2.33	2.66	3.04	VELOCITY	0.17	1.07	0.99	1.12	1.25	1.49	1.99	2.33	2.66	3.04	VELOCITY	0.00	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02
TIME	16.26	20.8	22.75	20.81	20.82	20.82	20.82	23.9	20.55	20.55	TIME	16.65	23.07	23.06	23.01	23.06	23	22.99	23	23.29	22.67	TIME										
MAX VEL	0.18	1.07	0.99	1.12	1.25	1.49	1.99	2.33	2.66	3.04	MAX VEL	0.17	1.07	0.99	1.12	1.25	1.49	1.99	2.33	2.66	3.04	MAX VEL										
DEPTH	0.3	3.22	10.14	2.03	9.46	9.94	9.97	9.33	10.08	11.09	DEPTH	0.3	3.2	10.19	2.03	9.52	9.98	9.98	9.3	10.1	11.06	DEPTH										
TIME	16.26	19.77	12.75	4.28	12.75	12.44	12.52	12.75	12.55	12.75	TIME	16.65	16.87	13.04	4.28	13.04	12.59	12.6	12.68	12.66	12.66	TIME										
NODE	351	352	353	354	355	356	357	358	359	360	NODE	351	352	353	354	355	356	357	358	359	360	NODE	351	352	353	354	355	356	357	358	359	360
ELEVATION	137.74	138	138.25	138.52	138.76	138.96	139.14	139.31	139.51	139.71	ELEVATION	137.73	137.98	138.24	138.51	138.75	138.95	139.12	139.3	139.5	139.7	ELEVATION	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01
MAX DEPTH	13.25	12.69	11.89	11.82	11.4	10.89	10.42	10.58	10.68	10.18	MAX DEPTH	13.24	12.67	11.88	11.81	11.39	10.88	10.4	10.57	10.67	10.17	MAX DEPTH	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01
VELOCITY	3.03	2.64	2.51	2.59	2.37	2.17	2.06	2.37	2.74	2.71	VELOCITY	3.03	2.64	2.52	2.59	2.37	2.18	2.07	2.37	2.74	2.71	VELOCITY										
TIME	20.54	20.52	20.51	20.51	20.51	20.51	21.67	23.53	23.53	19.73	TIME	23.51	23.51	23.51	23.51	23.5	23.5	22.71	23.68	23.68	22.98	TIME										
MAX VEL	3.03	2.64	2.51	2.59	2.37	2.17	2.06	2.37	2.74	2.71	MAX VEL	3.03	2.64	2.52	2.59	2.37	2.18	2.07	2.37	2.74	2.71	MAX VEL										
DEPTH	12.97	12.39	11.6	11.54	11.13	10.74	10.41	10.3	10.45	9.96	DEPTH	12.99	12.42	11.57	11.51	11.11	10.71	10.34	10.38	10.45	9.96	DEPTH										
TIME	12.54	12.44	12.42	12.41	12.41	12.91	16.55	12.3	12.44	12.44	TIME	12.63	12.55	12.35	12.32	12.34	12.75	13.74	12.61	12.45	12.45	TIME										
NODE	361	362	363	364	365	366	367	368	369	370	NODE	361	362	363	364	365	366	367	368	369	370	NODE	361	362	363	364	365	366	367	368	369	370
ELEVATION	139.89	140.05	140.19	140.35	140.54	140.77	140.97	141.07	141.18	141.29	ELEVATION	139.89	140.05	140.19	140.35	140.54	140.76	140.97	141.07	141.17	141.29	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
MAX DEPTH	10.11	10.72	12.07	11.49	10.02	9.32	13.75	20.9	11.44	13.11	MAX DEPTH	10.11	10.72	12.07	11.49	10.02	9.31	13.75	20.9	11.43	13.11	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
VELOCITY	2.33	2.14	2.32	2.29	2.19	2.21	3.04	4.46	2.9	2.27	VELOCITY	2.32	2.15	2.32	2.29	2.2	2.21	3.04	4.46	2.9	2.27	VELOCITY										
TIME	19.73	20	20	23.99	23.99	23.99	22.35	23.31	22.23	23.61	TIME	22.98	19.45	21.33	21.33	21.33	21.34	22.2	22.2	22.61	22.82	TIME										
MAX VEL	2.33	2.14	2.32	2.29	2.19	2.21	3.04	4.46	2.9	2.27	MAX VEL	2.32	2.15	2.32	2.29	2.2	2.21	3.04	4.46	2.9	2.27	MAX VEL										
DEPTH	9.84	10.58	11.9	11.23	9.81	9.03	13.48	11.88	11.18	12.84	DEPTH	9.97	10.54	11.82	11.27	9.81	9.04	13.46	11.88	11.2	12.88	DEPTH										
TIME	12.22	12.76	12.56	12.18	12.33	12.07	12.08	2.41	12.08	12.06	TIME	12.87	12.56	12.26	12.33	12.34	12.09	12.03	2.41	12.15	12.16	TIME										
NODE	371	372	373	374	375	376	377	378	379	380	NODE	371	372	373	374	375	376	377	378	379	380	NODE	371	372	373	374	375	376	377	378	379	380
ELEVATION	141.38	141.43	141.48	141.51	132.08	132.2	130.63	130.21	132.27	133.83	ELEVATION	141.37	141.43	141.48	141.51	132.08	132.2	130.63	130.21	132.27	133.83	ELEVATION	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	16.41	15.87	14.95	10.95	0	0	0	0	0	0	MAX DEPTH	16.4	15.87	14.95	10.95	0	0	0	0	0	0	MAX DEPTH	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	2.17	1.91	1.72	1.32	0	0	0	0	0	0	VELOCITY	2.17	1.91	1.72	1.32	0	0	0	0	0	0	VELOCITY										
TIME	21	21	21	21	0	0	0	0	0	0	TIME	20.92	23.28	23.28	22.81	0	0	0	0	0	0	TIME										
MAX VEL	2.17	1.91	1.72	1.32	0	0	0	0	0	0	MAX VEL	2.17	1.91	1.72	1.32	0	0	0	0	0	0	MAX VEL										
DEPTH	16.13	15.61	14.75	10.75	0	0	0	0	0	0	DEPTH	16.17	15.65	14.73	10.84	0	0	0	0	0	0	DEPTH										
TIME	12.04	12.06	12.23	12.23	0	0	0	0	0	0	TIME	12.14	12.16	12.16	12.68	0	0	0	0	0	0	TIME										
NODE	381	382	383	384	385	386	387	388	389	390	NODE	381	382	383	384	385	386	387	388	389	390	NODE	381	382	383	384	385	386	387	388	389	390
ELEVATION	134.73	134.77	134.87	135.06	135.25	135.4	135.67	135.91	136.11	136.18	ELEVATION	134.72	134.75	134.85	135.05	135.24	135.38	135.67	135.9	136.09	136.17	ELEVATION	0.01	0.02	0.02	0.01	0.01	0.02	0.00	0.01	0.02	0.01
MAX DEPTH	0.21	0.62	0.59	0.49	0.51	0.74	0.5	0.75	4.24	11.63	MAX DEPTH	0.2	0.6	0.57	0.48	0.5	0.72	0.5	0.74	4.22	11.62	MAX DEPTH	0.01	0.02	0.02							

FME006446

Segment O3

TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	411	412	413	414	415	416	417	418	419	420	NODE	411	412	413	414	415	416	417	418	419	420	NODE	411	412	413	414	415	416	417	418	419	420
ELEVATION	140.21	140.39	140.56	140.77	140.87	141.02	141.17	141.28	141.35	141.41	ELEVATION	140.19	140.38	140.55	140.77	140.87	141.02	141.17	141.27	141.35	141.41	ELEVATION	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	11.58	9.92	9.81	16.18	15.27	12.74	14.18	14.32	14.29	12.77	MAX DEPTH	11.56	9.91	9.8	16.18	15.27	12.74	14.18	14.31	14.29	12.77	MAX DEPTH	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
VELOCITY	2.34	2.1	2.01	5.63	4.82	2.63	2.48	2.26	2.06	1.78	VELOCITY	2.34	2.1	2.01	5.63	4.82	2.63	2.48	2.26	2.06	1.78	VELOCITY	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
TIME	21.76	21.19	23.61	22.23	22.24	22.24	21.26	21.25	20.99	21	TIME	21.33	21.33	23.45	21.92	22.2	22.61	22.61	20.93	20.45	20.92	TIME	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
MAX VEL	2.34	2.1	2.01	5.63	4.82	2.63	2.48	2.26	2.06	1.78	MAX VEL	2.34	2.1	2.01	5.63	4.82	2.63	2.48	2.26	2.06	1.78	MAX VEL	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
DEPTH	11.3	9.65	9.59	3.7	2.92	12.48	13.91	14.05	14.02	12.51	DEPTH	11.38	9.7	9.59	3.7	2.92	12.5	13.94	14.09	14.07	12.54	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	12.18	12.18	12.33	1.45	1.47	12.09	12.08	12.06	12.05	12.06	TIME	12.45	12.34	12.34	1.45	1.47	12.15	12.15	12.18	12.18	12.13	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	421	422	423	424	425	426	427	428	429	430	NODE	421	422	423	424	425	426	427	428	429	430	NODE	421	422	423	424	425	426	427	428	429	430
ELEVATION	142.8	131.84	131.58	130.22	131.05	132.83	134.32	134.78	134.8	134.9	ELEVATION	142.8	131.84	131.58	130.22	131.05	132.83	134.32	134.76	134.79	134.89	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01
MAX DEPTH	0	0	0	0	0	0	0	1	1.49	0.94	MAX DEPTH	0	0	0	0	0	0	0	0.98	1.48	0.93	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01
VELOCITY	0	0	0	0	0	0	0	0.14	0.23	0.22	VELOCITY	0	0	0	0	0	0	0	0.14	0.23	0.22	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01
TIME	0	0	0	0	0	0	0	24	21.51	21.51	TIME	0	0	0	0	0	0	0	21.28	21.27	23.08	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01
MAX VEL	0	0	0	0	0	0	0	0.14	0.23	0.22	MAX VEL	0	0	0	0	0	0	0	0.14	0.23	0.22	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0	0	0	0	0	0	0	0.98	1.11	0.94	DEPTH	0	0	0	0	0	0	0	0.98	1.11	0.92	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0	0	0	0	0	0	0	16.53	13.02	20.87	TIME	0	0	0	0	0	0	0	18.7	13.05	22.27	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	431	432	433	434	435	436	437	438	439	440	NODE	431	432	433	434	435	436	437	438	439	440	NODE	431	432	433	434	435	436	437	438	439	440
ELEVATION	135.07	135.24	135.34	135.54	135.81	135.99	136.11	136.2	136.28	136.42	ELEVATION	135.06	135.22	135.32	135.52	135.79	135.97	136.09	136.18	136.27	136.4	ELEVATION	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02
MAX DEPTH	1.17	3.46	4.71	3.29	3.23	11.09	11.9	11.22	10.66	10.02	MAX DEPTH	1.16	3.44	4.69	3.27	3.21	11.07	11.88	11.2	10.65	10	MAX DEPTH	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02
VELOCITY	0.31	0.74	0.84	1.02	1.5	2.27	1.99	1.87	1.63	1.69	VELOCITY	0.3	0.74	0.84	1.02	1.49	2.28	1.99	1.87	1.63	1.69	VELOCITY	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02
TIME	24	20.83	20.82	20.81	20.81	20.81	20.81	23.88	23.88	20.82	TIME	23.08	23.07	23.06	23	23	23	23.06	23.06	23.06	23.01	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0.31	0.74	0.84	1.02	1.5	2.27	1.99	1.87	1.63	1.69	MAX VEL	0.3	0.74	0.84	1.02	1.49	2.28	1.99	1.87	1.63	1.69	MAX VEL	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02
DEPTH	1.17	3.46	4.71	3.29	3.22	10.93	3.76	2.65	10.37	9.73	DEPTH	1.16	3.44	4.69	3.27	3.21	10.71	3.76	2.65	10.32	9.67	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	21.41	21.91	21.91	20.81	21.76	13.51	4.28	4.16	12.75	12.75	TIME	23.01	23.01	23.01	23	21.9	12.61	4.28	4.16	12.63	12.6	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	441	442	443	444	445	446	447	448	449	450	NODE	441	442	443	444	445	446	447	448	449	450	NODE	441	442	443	444	445	446	447	448	449	450
ELEVATION	136.6	136.81	137.05	137.31	137.59	137.85	138.09	138.32	138.54	138.75	ELEVATION	136.58	136.8	137.03	137.3	137.57	137.84	138.08	138.31	138.52	138.74	ELEVATION	0.02	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.01
MAX DEPTH	10.09	10.34	10.25	10	9.72	9.77	10.66	9.64	9.65	16.23	MAX DEPTH	10.07	10.33	10.23	9.99	9.7	9.76	10.65	9.63	9.63	16.22	MAX DEPTH	0.02	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.01
VELOCITY	1.91	2.16	2.27	2.31	2.27	2.25	2.15	2.06	2.3	4.02	VELOCITY	1.91	2.16	2.27	2.31	2.27	2.25	2.16	2.06	2.31	4.03	VELOCITY	0.02	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.01
TIME	20.82	21.92	20.57	20.56	20.56	20.54	20.54	20.54	20.54	20.54	TIME	23.01	23.28	22.66	22.66	23.14	23.14	23.14	23.14	23.98	23.13	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	1.91	2.16	2.27	2.31	2.27	2.25	2.15	2.06	2.3	4.02	MAX VEL	1.91	2.16	2.27	2.31	2.27	2.25	2.16	2.06	2.31	4.03	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	9.75	10.02	9.94	9.71	9.44	9.52	10.42	9.4	9.44	16	DEPTH	9.76	10.03	9.96	9.73	9.46	9.51	10.41	9.43	9.47	15.95	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	12.55	12.55	12.55	12.55	12.58	12.59	12.59	12.59	12.69	12.54	TIME	12.63	12.63	12.66	12.66																	

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	491	492	493	494	495	496	497	498	499	500	NODE	491	492	493	494	495	496	497	498	499	500	NODE	491	492	493	494	495	496	497	498	499	500
ELEVATION	137.25	137.5	137.76	138	138.2	138.44	138.68	138.83	138.98	139.14	ELEVATION	137.23	137.49	137.75	137.99	138.19	138.43	138.67	138.82	138.97	139.14	ELEVATION	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
MAX DEPTH	9.5	8.95	8.76	11.4	15.11	21.13	22.1	15.94	15.06	12.73	MAX DEPTH	9.48	8.94	8.75	11.39	15.1	21.12	22.09	15.93	15.05	12.73	MAX DEPTH	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
VELOCITY	2.15	2.09	2.15	2.67	3.4	4.03	4.86	2.56	2.29	2.15	VELOCITY	2.15	2.09	2.15	2.68	3.4	4.04	4.86	2.54	2.29	2.15	VELOCITY	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
TIME	20.57	20.56	20.56	20.54	20.54	20.54	20.55	20.55	24	22.14	TIME	22.66	23.14	23.14	23.14	23.14	23.14	23.13	21.82	20.45	23.5	TIME										
MAX VEL	2.15	2.09	2.15	2.67	3.4	4.03	4.86	2.56	2.29	2.15	MAX VEL	2.15	2.09	2.15	2.68	3.4	4.04	4.86	2.54	2.29	2.15	MAX VEL										
DEPTH	9.25	8.72	8.56	11.14	3.43	20.81	6.09	15.64	14.78	12.55	DEPTH	9.22	8.71	8.55	11.15	3.43	20.83	6.09	15.71	14.84	12.57	DEPTH										
TIME	12.75	12.75	12.85	12.54	2.84	12.28	2.45	12.29	12.33	12.69	TIME	12.66	12.76	12.86	12.6	2.84	12.34	2.45	12.54	12.54	12.85	TIME										
NODE	501	502	503	504	505	506	507	508	509	510	NODE	501	502	503	504	505	506	507	508	509	510	NODE	501	502	503	504	505	506	507	508	509	510
ELEVATION	139.31	139.42	139.53	139.74	139.93	140.11	140.27	140.39	140.54	140.75	ELEVATION	139.3	139.41	139.52	139.73	139.92	140.11	140.26	140.39	140.54	140.75	ELEVATION	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00
MAX DEPTH	19.28	21.68	16.41	11.4	10.01	11.72	21.9	16.59	12.06	13.81	MAX DEPTH	19.27	21.67	16.4	11.39	10	11.72	21.89	16.59	12.06	13.81	MAX DEPTH	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00
VELOCITY	3.97	3.41	2.18	2.23	2.26	2.41	4.13	3.76	2.44	2.4	VELOCITY	3.97	3.41	2.18	2.23	2.26	2.41	4.13	3.77	2.44	2.39	VELOCITY										
TIME	22.14	23.92	23.92	21.19	21.19	23.6	23.61	21.32	21.81	23.61	TIME	20.45	23.69	23.7	18.98	19.93	20.07	21.23	23.45	21.55	22.2	TIME										
MAX VEL	3.97	3.41	2.18	2.23	2.26	2.41	4.13	3.76	2.44	2.4	MAX VEL	3.97	3.41	2.18	2.23	2.26	2.41	4.13	3.77	2.44	2.39	MAX VEL										
DEPTH	2.93	5.57	16.15	11.15	9.78	11.45	21.58	16.33	11.8	13.71	DEPTH	2.93	5.57	16.18	11.2	9.81	11.49	21.64	16.3	11.78	13.79	DEPTH										
TIME	2.06	1.98	12.36	12.34	12.38	12.19	12.07	12.18	12.18	12.9	TIME	2.06	1.98	12.47	12.55	12.49	12.34	12.24	12.12	12.12	14.45	TIME										
NODE	511	512	513	514	515	516	517	518	519	520	NODE	511	512	513	514	515	516	517	518	519	520	NODE	511	512	513	514	515	516	517	518	519	520
ELEVATION	140.88	141.01	144.23	159.26	170.21	130.6	129.95	131.06	132.59	134.33	ELEVATION	140.88	141.01	144.23	159.26	170.21	130.6	129.95	131.06	132.59	134.33	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	13.88	10.93	0	0	0	0	0	0	0	0	MAX DEPTH	13.88	10.93	0	0	0	0	0	0	0	0	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	2.6	1.83	0	0	0	0	0	0	0	0	VELOCITY	2.6	1.83	0	0	0	0	0	0	0	0	VELOCITY										
TIME	23.61	23.63	0	0	0	0	0	0	0	0	TIME	22.21	21.48	0	0	0	0	0	0	0	0	TIME										
MAX VEL	2.6	1.83	0	0	0	0	0	0	0	0	MAX VEL	2.6	1.83	0	0	0	0	0	0	0	0	MAX VEL										
DEPTH	13.6	10.66	0	0	0	0	0	0	0	0	DEPTH	13.61	10.72	0	0	0	0	0	0	0	0	DEPTH										
TIME	12.08	12.09	0	0	0	0	0	0	0	0	TIME	12.12	12.26	0	0	0	0	0	0	0	0	TIME										
NODE	521	522	523	524	525	526	527	528	529	530	NODE	521	522	523	524	525	526	527	528	529	530	NODE	521	522	523	524	525	526	527	528	529	530
ELEVATION	134.68	134.71	134.76	134.86	135.01	135.14	135.3	135.48	135.6	135.74	ELEVATION	134.67	134.69	134.74	134.84	134.99	135.13	135.28	135.46	135.59	135.72	ELEVATION	0.01	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.02
MAX DEPTH	1.67	4.73	6.67	6.86	6.99	7.06	6.95	9.74	11.23	9.78	MAX DEPTH	1.66	4.71	6.65	6.84	6.97	7.05	6.93	9.72	11.22	9.76	MAX DEPTH	0.01	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.02
VELOCITY	0.28	0.61	0.89	1.12	1.36	1.4	1.45	1.58	1.92	1.84	VELOCITY	0.28	0.61	0.89	1.11	1.35	1.4	1.45	1.58	1.92	1.84	VELOCITY										
TIME	21.3	21.3	21.5	21.5	22.46	22.46	20.82	21.9	20.82	20.81	TIME	23.55	21.26	21.26	23.38	23.07	23.06	23.06	22.85	23.06	23.06	TIME										
MAX VEL	0.28	0.61	0.89	1.12	1.36	1.4	1.45	1.58	1.92	1.84	MAX VEL	0.28	0.61	0.89	1.11	1.35	1.4	1.45	1.58	1.92	1.84	MAX VEL										
DEPTH	1.67	4.72	6.66	6.41	6.56	6.65	6.55	9.36	3.62	9.31	DEPTH	1.65	4.71	6.62	6.34	6.49	6.6	6.64	9.3	3.62	9.47	DEPTH										
TIME	21.51	22.59	20.27	12.67	12.67	12.67	12.67	12.66	4.63	12.37	TIME	21.28	21.19	15.91	12.54	12.54	12.58	13.04	12.53	4.63	12.88	TIME										
NODE	531	532	533	534	535	536	537	538	539	540	NODE	531	532	533	534	535	536	537	538	539	540	NODE	531	532	533	534	535	536	537	538	539	540
ELEVATION	135.88	136.01	136.14	136.29	136.48	136.73	136.98	137.19	137.41	137.67	ELEVATION	135.86	135.98	136.13	136.27	136.46	136.71	136.96	137.18	137.39	137.65	ELEVATION	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.02	0.02
MAX DEPTH	9.7	9.54	10.01	10.																												

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	571	572	573	574	575	576	577	578	579	580	NODE	571	572	573	574	575	576	577	578	579	580	NODE	571	572	573	574	575	576	577	578	579	580
ELEVATION	134.81	134.92	135.05	135.24	135.41	135.5	135.62	135.75	135.89	136.03	ELEVATION	134.79	134.91	135.03	135.22	135.4	135.48	135.6	135.74	135.87	136.01	ELEVATION	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02
MAX DEPTH	6.89	7.79	8.03	6.75	10.89	10.65	9.45	9.84	9.87	10.19	MAX DEPTH	6.87	7.78	8.01	6.73	10.88	10.63	9.43	9.83	9.85	10.17	MAX DEPTH	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02
VELOCITY	1.16	1.42	1.49	1.55	1.89	1.67	1.77	1.91	1.97	1.97	VELOCITY	1.16	1.41	1.48	1.55	1.89	1.67	1.76	1.92	1.97	1.97	VELOCITY										
TIME	22.45	22.46	20.15	20.82	21.9	21.9	20.82	21.43	21.43	20.83	TIME	23.06	23.06	23.06	23.06	23.06	22.85	23.06	20.05	22.17	23.07	TIME										
MAX VEL	1.16	1.42	1.49	1.55	1.89	1.67	1.77	1.91	1.97	1.97	MAX VEL	1.16	1.41	1.48	1.55	1.89	1.67	1.76	1.92	1.97	1.97	MAX VEL										
DEPTH	6.64	7.35	7.61	6.27	3.14	10.39	9.41	9.5	9.57	10.03	DEPTH	6.53	7.3	7.56	6.23	3.14	10.32	9.41	9.57	9.6	9.81	DEPTH										
TIME	13.34	12.67	12.67	12.47	4.73	13.12	15.4	12.73	12.84	13.51	TIME	13	12.57	12.58	12.39	4.73	12.88	16.44	13.04	13.04	12.58	TIME										
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	581	582	583	584	585	586	587	588	589	590	NODE	581	582	583	584	585	586	587	588	589	590	NODE	581	582	583	584	585	586	587	588	589	590
ELEVATION	136.17	136.36	136.63	136.95	137.15	137.3	137.52	137.73	137.93	138.09	ELEVATION	136.16	136.34	136.62	136.94	137.14	137.28	137.5	137.71	137.91	138.08	ELEVATION	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01
MAX DEPTH	10.37	8.65	7.53	9.73	12.11	11.93	9.47	9.42	9.27	9.3	MAX DEPTH	10.36	8.63	7.52	9.72	12.1	11.91	9.45	9.4	9.25	9.29	MAX DEPTH	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01
VELOCITY	2.08	2.06	2.04	2.15	2.13	3.01	2.26	2.2	2.18	2.17	VELOCITY	2.08	2.06	2.04	2.15	2.13	3.01	2.26	2.21	2.19	2.18	VELOCITY										
TIME	20.84	21.92	22.94	20.57	20.57	20.57	20.56	20.5	20.5	20.56	TIME	23.07	23.08	23.11	22.66	22.66	22.65	22.5	23.14	23.14	23.14	TIME										
MAX VEL	2.08	2.06	2.04	2.15	2.13	3.01	2.26	2.2	2.18	2.17	MAX VEL	2.08	2.06	2.04	2.15	2.13	3.01	2.26	2.21	2.19	2.18	MAX VEL										
DEPTH	10.05	8.34	7.26	9.48	11.87	2.37	9.25	9.18	9.01	9.06	DEPTH	10.07	8.36	7.3	9.47	11.83	2.37	9.23	9.18	9.04	9.05	DEPTH										
TIME	12.68	12.68	12.76	12.76	12.73	3.3	12.83	12.69	12.59	12.59	TIME	12.8	12.8	12.99	12.76	12.64	3.3	12.76	12.75	12.75	12.6	TIME										
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	591	592	593	594	595	596	597	598	599	600	NODE	591	592	593	594	595	596	597	598	599	600	NODE	591	592	593	594	595	596	597	598	599	600
ELEVATION	138.27	138.45	138.64	138.82	139.04	139.24	139.44	139.54	139.71	139.87	ELEVATION	138.26	138.44	138.63	138.81	139.03	139.23	139.43	139.53	139.71	139.87	ELEVATION	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
MAX DEPTH	8.38	8.16	7.55	7.78	7.36	10.05	16.83	20.63	18.99	15.53	MAX DEPTH	8.37	8.15	7.54	7.77	7.35	10.04	16.82	20.62	18.99	15.53	MAX DEPTH	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
VELOCITY	2.03	2.04	1.98	2.04	2.02	2.86	2.91	3.42	4.71	2.56	VELOCITY	2.03	2.04	1.98	2.04	2.01	2.88	2.92	3.42	4.71	2.56	VELOCITY										
TIME	20.55	21.26	20.55	23.96	23.94	19.41	23.92	23.92	21.81	21.81	TIME	22.77	22.77	20.45	20.45	20.45	21.24	23.01	23.43	19.22	20.07	TIME										
MAX VEL	2.03	2.04	1.98	2.04	2.02	2.87	2.91	3.42	4.71	2.56	MAX VEL	2.03	2.04	1.98	2.04	2.01	2.88	2.92	3.42	4.71	2.56	MAX VEL										
DEPTH	8.17	7.9	7.34	7.57	7.26	10.05	16.53	7.02	4.24	4.8	DEPTH	8.18	7.94	7.36	7.54	7.35	9.85	16.4	7.02	4.24	4.8	DEPTH										
TIME	12.69	12.48	12.64	12.62	13.3	19.41	12.24	1.77	1.63	2.2	TIME	12.8	12.65	12.75	12.52	18.44	12.64	11.94	1.77	1.63	2.2	TIME										
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	601	602	603	604	605	606	607	608	609	610	NODE	601	602	603	604	605	606	607	608	609	610	NODE	601	602	603	604	605	606	607	608	609	610
ELEVATION	139.99	140.14	140.25	140.33	140.47	140.55	142.21	168.61	176.11	128.13	ELEVATION	139.99	140.13	140.24	140.33	140.46	140.54	142.21	168.61	176.11	128.13	ELEVATION	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00
MAX DEPTH	10.52	9.84	11.12	12.68	3.41	0.89	0	0	0	0	MAX DEPTH	10.52	9.83	11.11	12.68	3.4	0.88	0	0	0	0	MAX DEPTH	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00
VELOCITY	2.13	2.03	2.36	2.1	1	0.31	0	0	0	0	VELOCITY	2.14	2.03	2.36	2.1	1	0.31	0	0	0	0	VELOCITY										
TIME	21.81	21.81	21.81	22.31	23.64	21.39	0	0	0	0	TIME	20.07	20.49	23.23	23.23	23.87	21.55	0	0	0	0	TIME										
MAX VEL	2.13	2.03	2.36	2.1	1	0.31	0	0	0	0	MAX VEL	2.14	2.03	2.36	2.1	1	0.31	0	0	0	0	MAX VEL										
DEPTH	10.3	9.62	10.8	2.53	3.41	0.89	0	0	0	0	DEPTH	10.33	9.6	10.87	2.53	3.4	0.88	0	0	0	0	DEPTH										
TIME	12.38	12.38	12.08	2.79	23.25	21.62	0	0	0	0	TIME	12.49	12.34	12.27	2.79	18.46	22.57	0	0	0	0	TIME										
																							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	611	612	613	614	615	616	617	618	619	620	NODE	611	612	613	614	615	616	617	618	619	620	NODE	611	612	613	614	615	616	617	618	619	620
ELEVATION	130.33	131.96	133.15	134.54	134.57	134.6	134.65	134.73	134.84	134.99	ELEVATION	130.33	131.96	133.15	134.53	134.55	134.59	134.63	134.71	134.82	134.97	ELEVATION	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.02	0.02	0.02
MAX DEPTH	0	0	0	0.36	6.24	6.83																										

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	641	642	643	644	645	646	647	648	649	650	NODE	641	642	643	644	645	646	647	648	649	650	NODE	641	642	643	644	645	646	647	648	649	650
ELEVATION	138.59	138.81	139.02	139.2	139.37	139.52	139.69	139.84	139.98	140.13	ELEVATION	138.58	138.8	139.01	139.19	139.36	139.51	139.68	139.83	139.98	140.13	ELEVATION	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
MAX DEPTH	9.15	8.83	8.98	8.97	9.84	9.76	10.75	11.76	14.09	14.9	MAX DEPTH	9.14	8.82	8.97	8.96	9.83	9.75	10.74	11.75	14.09	14.9	MAX DEPTH	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
VELOCITY	2.06	2.13	2.25	2.28	2.39	2.31	2.42	2.47	2.49	2.44	VELOCITY	2.07	2.13	2.25	2.27	2.4	2.32	2.42	2.47	2.5	2.44	VELOCITY	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
TIME	21.68	21.67	21.68	21.68	23.93	21.81	21.81	21.81	21.81	21.81	TIME	20.45	19.37	23.36	19.38	19.22	19.22	20.07	20.91	23.44	23.45	TIME										
MAX VEL	2.06	2.13	2.25	2.28	2.39	2.31	2.42	2.47	2.49	2.44	MAX VEL	2.07	2.13	2.25	2.27	2.4	2.32	2.42	2.47	2.5	2.44	MAX VEL										
DEPTH	8.97	8.62	8.7	8.74	9.62	9.47	10.52	11.53	13.87	14.7	DEPTH	8.91	8.59	8.77	8.73	9.59	9.51	10.54	11.51	13.84	14.65	DEPTH										
TIME	12.77	12.61	12.36	12.47	12.47	12.24	12.39	12.38	12.39	12.46	TIME	12.54	12.51	12.66	12.47	12.37	12.37	12.49	12.34	12.29	12.26	TIME										
NODE	651	652	653	654	655	656	657	658	659	660	NODE	651	652	653	654	655	656	657	658	659	660	NODE	651	652	653	654	655	656	657	658	659	660
ELEVATION	140.23	140.26	140.37	140.93	152.1	160.17	128.19	130.63	131.9	133.96	ELEVATION	140.22	140.26	140.37	140.93	152.1	160.17	128.19	130.63	131.9	133.96	ELEVATION	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	9.44	7.19	2.44	0	0	0	0	0	0	0	MAX DEPTH	9.43	7.19	2.44	0	0	0	0	0	0	0	MAX DEPTH	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.32	0.84	0.65	0	0	0	0	0	0	0	VELOCITY	1.32	0.84	0.65	0	0	0	0	0	0	0	VELOCITY										
TIME	21.81	21.82	23.23	0	0	0	0	0	0	0	TIME	23.23	23.87	23.89	0	0	0	0	0	0	0	TIME										
MAX VEL	1.32	0.84	0.65	0	0	0	0	0	0	0	MAX VEL	1.32	0.84	0.65	0	0	0	0	0	0	0	MAX VEL										
DEPTH	9.41	7.19	2.09	0	0	0	0	0	0	0	DEPTH	9.38	7.19	2.09	0	0	0	0	0	0	0	DEPTH										
TIME	14.43	20.12	12.28	0	0	0	0	0	0	0	TIME	13.66	20.14	12.28	0	0	0	0	0	0	0	TIME										
NODE	661	662	663	664	665	666	667	668	669	670	NODE	661	662	663	664	665	666	667	668	669	670	NODE	661	662	663	664	665	666	667	668	669	670
ELEVATION	134.47	134.5	134.54	134.58	134.64	134.75	134.88	135.03	135.18	135.29	ELEVATION	134.45	134.48	134.52	134.57	134.62	134.73	134.86	135.01	135.16	135.27	ELEVATION	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
MAX DEPTH	3.24	8	7.58	8.16	8.02	5.66	5.03	6.4	10.93	10.86	MAX DEPTH	3.22	7.98	7.56	8.15	8	5.64	5.01	6.38	10.91	10.84	MAX DEPTH	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
VELOCITY	0.67	1.37	1.31	1.7	1.4	1.13	1.16	1.54	2.06	2.03	VELOCITY	0.66	1.37	1.31	1.7	1.4	1.13	1.15	1.53	2.06	2.03	VELOCITY										
TIME	21.3	21.29	22.46	21.5	22.44	21.7	20.83	19.14	20.13	23.45	TIME	22.09	22.09	23.39	22.9	22.77	21.27	21.29	21.19	21.23	21.23	TIME										
MAX VEL	0.67	1.37	1.31	1.7	1.4	1.13	1.16	1.54	2.06	2.03	MAX VEL	0.66	1.37	1.31	1.7	1.4	1.13	1.15	1.53	2.06	2.03	MAX VEL										
DEPTH	3.24	4.32	2.01	8.16	7.89	5.65	5.03	6.3	3.07	10.38	DEPTH	3.22	4.32	2.01	8.15	7.83	5.64	5.01	6.3	3.07	10.41	DEPTH										
TIME	21.29	8.35	6.84	17.03	14.08	18.04	18.46	14.25	4.85	12.44	TIME	22.09	8.36	6.84	20.36	13.79	18.97	23.35	14.51	4.85	12.55	TIME										
NODE	671	672	673	674	675	676	677	678	679	680	NODE	671	672	673	674	675	676	677	678	679	680	NODE	671	672	673	674	675	676	677	678	679	680
ELEVATION	135.39	135.51	135.65	135.78	135.92	136.11	136.34	136.67	137.05	137.17	ELEVATION	135.37	135.49	135.63	135.76	135.9	136.09	136.32	136.65	137.04	137.15	ELEVATION	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02
MAX DEPTH	10.58	10.68	10.3	10.33	9.63	8.26	9.01	8.28	13.68	17.96	MAX DEPTH	10.56	10.66	10.28	10.31	9.61	8.24	8.99	8.26	13.67	17.94	MAX DEPTH	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02
VELOCITY	1.91	1.95	1.94	2.02	2.07	1.95	2.06	2.29	2.84	2.34	VELOCITY	1.91	1.95	1.94	2.02	2.07	1.95	2.06	2.29	2.84	2.34	VELOCITY										
TIME	23.44	20.84	23.71	20.83	20.84	20.85	23.49	20.37	20.57	20.57	TIME	22.03	23.7	22.44	23.06	23.07	23.1	23.11	23.11	21.76	21.77	TIME										
MAX VEL	1.91	1.95	1.94	2.02	2.07	1.95	2.06	2.29	2.84	2.34	MAX VEL	1.91	1.95	1.94	2.02	2.07	1.95	2.06	2.29	2.84	2.34	MAX VEL										
DEPTH	10.24	10.36	9.99	10.19	9.36	8.01	8.77	8.06	13.41	17.78	DEPTH	10.13	10.37	9.9	10.18	9.36	8.01	8.75	8.04	13.37	17.81	DEPTH										
TIME	12.79	12.84	12.84	13.66	12.96	12.98	12.99	12.99	12.63	13.07	TIME	12.52	12.92	12.58	13.76	13.01	13.03	12.96	12.98	12.55	13.39	TIME										
NODE	681	682	683	684	685	686	687	688	689	690	NODE	681	682	683	684	685	686	687	688	689	690	NODE	681	682	683	684	685	686	687	688	689	690
ELEVATION	137.25	137.4	137.5																													

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	711	712	713	714	715	716	717	718	719	720	NODE	711	712	713	714	715	716	717	718	719	720	NODE	711	712	713	714	715	716	717	718	719	720
ELEVATION	134.51	134.55	134.64	134.75	134.89	135.05	135.17	135.28	135.39	135.52	ELEVATION	134.5	134.53	134.62	134.73	134.87	135.03	135.15	135.26	135.37	135.5	ELEVATION	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
MAX DEPTH	8.32	6.41	5.57	7.65	9.1	11.22	11.13	10.64	10.37	9.52	MAX DEPTH	8.31	6.39	5.55	7.63	9.08	11.2	11.11	10.62	10.35	9.5	MAX DEPTH	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
VELOCITY	2.34	1.39	1.08	1.48	1.91	2.2	2.05	2.05	1.83	1.95	VELOCITY	2.34	1.39	1.08	1.47	1.91	2.2	2.05	2.05	1.83	1.94	VELOCITY	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TIME	21.5	21.48	22.63	20.14	20.84	19.13	22.63	20.84	23.72	22.95	TIME	23.06	21.27	21.28	22.08	22.57	21.19	21.22	23.08	22.63	23.4	TIME										
MAX VEL	2.34	1.39	1.08	1.48	1.91	2.2	2.05	2.05	1.83	1.95	MAX VEL	2.34	1.39	1.08	1.47	1.91	2.2	2.05	2.05	1.83	1.94	MAX VEL										
DEPTH	3.84	5.81	5.57	7.34	4.64	7.87	10.73	10.33	10.17	9.32	DEPTH	3.84	5.99	5.55	7.56	4.66	7.91	10.61	10.26	10.09	9.2	DEPTH										
TIME	7.55	12.36	22.63	13.09	7.07	8.03	12.65	12.94	13.38	13.37	TIME	7.55	12.82	18.54	14.62	7.09	8.08	12.38	12.74	13.05	12.9	TIME										
NODE	721	722	723	724	725	726	727	728	729	730	NODE	721	722	723	724	725	726	727	728	729	730	NODE	721	722	723	724	725	726	727	728	729	730
ELEVATION	135.64	135.79	135.97	136.18	136.45	136.75	137.02	137.23	137.33	137.43	ELEVATION	135.62	135.77	135.95	136.16	136.43	136.73	137	137.21	137.32	137.42	ELEVATION	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
MAX DEPTH	9.81	8.79	8.01	8.22	8.13	7.58	8.56	13.88	18.57	13.7	MAX DEPTH	9.79	8.77	7.99	8.2	8.11	7.56	8.54	13.86	18.56	13.69	MAX DEPTH	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
VELOCITY	1.99	1.82	1.89	2.12	2.2	2.26	2.61	3.32	4.83	2.14	VELOCITY	1.99	1.82	1.89	2.12	2.2	2.26	2.62	3.33	4.83	2.14	VELOCITY										
TIME	20.84	20.84	20.85	23.5	23.17	23.17	22.92	20.56	20.56	20.56	TIME	23.07	20.25	23.1	23.1	21.48	21.76	21.75	22.61	22.61		TIME										
MAX VEL	1.99	1.82	1.89	2.12	2.2	2.26	2.61	3.32	4.83	2.14	MAX VEL	1.99	1.82	1.89	2.12	2.2	2.26	2.62	3.33	4.83	2.14	MAX VEL										
DEPTH	9.62	8.62	7.94	7.98	7.9	7.36	8.28	13.74	4.94	13.5	DEPTH	9.66	8.62	7.89	7.97	7.83	7.34	8.29	13.65	4.94	13.47	DEPTH										
TIME	13.37	13.49	14.46	13.01	12.99	12.96	12.63	13.35	3.64	12.94	TIME	13.76	13.61	14	13.04	12.74	12.98	12.71	12.87	3.64	12.86	TIME										
NODE	731	732	733	734	735	736	737	738	739	740	NODE	731	732	733	734	735	736	737	738	739	740	NODE	731	732	733	734	735	736	737	738	739	740
ELEVATION	137.59	137.76	137.93	138.11	138.28	138.44	138.59	138.73	138.89	139.06	ELEVATION	137.57	137.75	137.92	138.09	138.27	138.43	138.58	138.72	138.88	139.06	ELEVATION	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.00
MAX DEPTH	11.3	11.19	10.64	9.84	9.78	9.81	10.71	11.1	10.99	11.11	MAX DEPTH	11.28	11.18	10.63	9.82	9.77	9.8	10.7	11.09	10.98	11.11	MAX DEPTH	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.00
VELOCITY	2.18	2.33	2.12	1.98	1.98	1.99	2.1	2.14	2.26	2.41	VELOCITY	2.18	2.34	2.12	1.98	1.98	2	2.1	2.14	2.26	2.41	VELOCITY										
TIME	20.51	20.51	21.67	21.67	21.66	21.66	21.65	22.38	21.81	21.81	TIME	23.34	20.75	22.72	23.23	21.75	21.48	22.95	22.54	22.54	22.54	TIME										
MAX VEL	2.18	2.33	2.12	1.98	1.98	1.99	2.1	2.14	2.26	2.41	MAX VEL	2.18	2.34	2.12	1.98	1.98	2	2.1	2.14	2.26	2.41	MAX VEL										
DEPTH	11.1	10.95	10.39	9.65	9.54	9.59	10.54	10.85	10.78	10.85	DEPTH	11.07	10.92	10.41	9.56	9.51	9.55	10.45	10.81	10.75	10.88	DEPTH										
TIME	12.93	12.67	12.61	12.87	12.62	12.62	12.86	12.47	12.61	12.37	TIME	12.84	12.6	12.76	12.52	12.52	12.52	12.51	12.36	12.51	12.51	TIME										
NODE	741	742	743	744	745	746	747	748	749	750	NODE	741	742	743	744	745	746	747	748	749	750	NODE	741	742	743	744	745	746	747	748	749	750
ELEVATION	139.23	139.4	139.63	143.18	141.31	157.54	155.96	158.58	159.62	151.92	ELEVATION	139.22	139.39	139.62	143.18	141.31	157.54	155.96	158.58	159.62	151.92	ELEVATION	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	11.31	11.58	5.02	0	0	0	0	0	0	0	MAX DEPTH	11.3	11.57	5.01	0	0	0	0	0	0	0	MAX DEPTH	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	2.47	2.5	1.64	0	0	0	0	0	0	0	VELOCITY	2.47	2.5	1.64	0	0	0	0	0	0	0	VELOCITY										
TIME	21.81	21.81	21.81	0	0	0	0	0	0	0	TIME	22.81	23.44	23.45	0	0	0	0	0	0	0	TIME										
MAX VEL	2.47	2.5	1.64	0	0	0	0	0	0	0	MAX VEL	2.47	2.5	1.64	0	0	0	0	0	0	0	MAX VEL										
DEPTH	11.05	11.33	5.02	0	0	0	0	0	0	0	DEPTH	11.01	11.31	5.01	0	0	0	0	0	0	0	DEPTH										
TIME	12.37	12.38	21.53	0	0	0	0	0	0	0	TIME	12.26	12.33	21.76	0	0	0	0	0	0	0	TIME										
NODE	751	752	753	754	755	756	757	758	759	760	NODE	751	752	753	754	755	756	757	758	759	760	NODE	751	752	753	754	755	756	757	758	759	760
ELEVATION	128.2	130.78	132.75	134	134.26	134.28	134.34	134.39	134.45	134.53	ELEVATION	128.2	130.78	132.75	134	134.25	134.27	134.33	134.37	134.44	134.51	ELEVATION	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.01	0.02
MAX DEPTH	0	0	0	0	8.92	7.22	6	7.66	5.79	9.39	MAX DEPTH	0	0</																			

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	821	822	823	824	825	826	827	828	829	830	NODE	821	822	823	824	825	826	827	828	829	830	NODE	821	822	823	824	825	826	827	828	829	830
ELEVATION	136.46	136.75	137.01	137.26	137.37	137.51	137.7	137.9	138.06	138.2	ELEVATION	136.44	136.73	136.99	137.25	137.36	137.5	137.69	137.89	138.05	138.19	ELEVATION	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MAX DEPTH	7.46	6.83	7.22	10.11	18.06	10.19	10.26	10.85	11.77	12.26	MAX DEPTH	7.44	6.81	7.2	10.1	18.05	10.18	10.25	10.84	11.76	12.25	MAX DEPTH	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
VELOCITY	2.08	2.17	2.28	2.41	4.17	2.48	2.42	2.13	2	2.03	VELOCITY	2.08	2.17	2.29	2.43	4.17	2.48	2.45	2.13	2.01	2.04	VELOCITY	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
TIME	22.99	23.37	23.92	21.74	20.55	22.4	22.4	21.68	21.66	21.65	TIME	20.54	22.62	22.61	22.61	22.72	22.72	22.72	21.5	22.54	22.54	TIME										
MAX VEL	2.08	2.17	2.28	2.41	4.17	2.48	2.42	2.13	2	2.03	MAX VEL	2.08	2.17	2.29	2.43	4.17	2.48	2.45	2.13	2.01	2.04	MAX VEL										
DEPTH	7.37	6.74	7.04	9.91	11.18	3.14	9.97	10.4	11.55	11.99	DEPTH	7.44	6.72	7.11	9.99	11.18	3.14	9.95	10.64	11.4	11.89	DEPTH										
TIME	13.92	13.92	13.1	12.94	4.53	4.55	12.52	12.1	12.72	12.49	TIME	20.09	13.93	13.89	13.62	4.53	4.55	12.49	12.87	12.23	12.23	TIME										
NODE	831	832	833	834	835	836	837	838	839	840	NODE	831	832	833	834	835	836	837	838	839	840	NODE	831	832	833	834	835	836	837	838	839	840
ELEVATION	138.33	138.46	138.56	138.67	138.82	138.91	138.94	138.78	137.76	148.4	ELEVATION	138.32	138.45	138.56	138.66	138.82	138.9	138.93	138.78	137.72	148.4	ELEVATION	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.04	0.00
MAX DEPTH	12.66	13.15	13.48	13.51	9.77	7.13	0.36	0.34	2.3	0	MAX DEPTH	12.65	13.14	13.48	13.5	9.77	7.12	0.35	0.34	2.26	0	MAX DEPTH	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.04	0.00
VELOCITY	2.1	2.09	2.04	2.23	1.92	1.55	0.3	0.36	0.28	0	VELOCITY	2.1	2.09	2.04	2.23	1.92	1.55	0.29	0.32	0.28	0	VELOCITY										
TIME	21.65	22.24	21.8	21.8	21.81	21.81	17.02	13.64	24	0	TIME	22.54	22.54	20.42	22.54	22.54	22.54	16.98	13.67	24	0	TIME										
MAX VEL	2.1	2.09	2.04	2.23	1.92	1.55	0.32	0.45	0.28	0	MAX VEL	2.1	2.09	2.04	2.23	1.92	1.55	0.31	0.45	0.28	0	MAX VEL										
DEPTH	12.4	12.89	3.47	3.56	9.65	7.06	0.34	0.25	0.26	0	DEPTH	12.36	12.93	3.47	3.56	9.64	7.04	0.33	0.24	0.26	0	DEPTH										
TIME	12.48	12.48	3.55	3.48	13.12	13.64	21.9	14.14	14.52	0	TIME	12.39	12.71	3.55	3.48	13.13	13.52	22.06	14.17	14.56	0	TIME										
NODE	841	842	843	844	845	846	847	848	849	850	NODE	841	842	843	844	845	846	847	848	849	850	NODE	841	842	843	844	845	846	847	848	849	850
ELEVATION	150.16	154.97	161.55	166.28	128.28	131.01	133.61	135.45	134.14	134.13	ELEVATION	150.16	154.97	161.55	166.28	128.28	131.01	133.61	135.45	134.12	134.12	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01
MAX DEPTH	0	0	0	0	0	0	0	0	9.81	12.66	MAX DEPTH	0	0	0	0	0	0	0	0	9.79	12.65	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01
VELOCITY	0	0	0	0	0	0	0	0	1.31	1.11	VELOCITY	0	0	0	0	0	0	0	0	1.31	1.11	VELOCITY										
TIME	0	0	0	0	0	0	0	0	22.49	21.25	TIME	0	0	0	0	0	0	0	0	22.96	22.96	TIME										
MAX VEL	0	0	0	0	0	0	0	0	1.31	1.11	MAX VEL	0	0	0	0	0	0	0	0	1.31	1.11	MAX VEL										
DEPTH	0	0	0	0	0	0	0	0	9.81	12.66	DEPTH	0	0	0	0	0	0	0	0	9.79	12.14	DEPTH										
TIME	0	0	0	0	0	0	0	0	23.86	20.46	TIME	0	0	0	0	0	0	0	0	20.92	12.66	TIME										
NODE	851	852	853	854	855	856	857	858	859	860	NODE	851	852	853	854	855	856	857	858	859	860	NODE	851	852	853	854	855	856	857	858	859	860
ELEVATION	134.15	134.19	134.24	134.32	134.42	134.53	134.63	134.76	134.88	134.98	ELEVATION	134.13	134.17	134.22	134.31	134.4	134.51	134.61	134.74	134.86	134.96	ELEVATION	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
MAX DEPTH	12.53	13.83	14.61	13.64	13.24	11.05	9.9	8.39	10.76	9.91	MAX DEPTH	12.51	13.81	14.59	13.63	13.22	11.03	9.88	8.37	10.74	9.89	MAX DEPTH	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
VELOCITY	1.36	1.61	2.43	2.76	2.81	2.22	1.7	1.67	2.35	1.87	VELOCITY	1.36	1.61	2.43	2.76	2.81	2.22	1.69	1.66	2.35	1.87	VELOCITY										
TIME	21.25	21.25	22.77	22.77	20.87	22.19	23.64	23.63	22.78	22.78	TIME	22.96	22.96	23.25	22.96	22.24	22.39	22.99	21.53	22.53	23.64	TIME										
MAX VEL	1.36	1.61	2.43	2.76	2.81	2.22	1.7	1.67	2.35	1.87	MAX VEL	1.36	1.61	2.43	2.76	2.81	2.22	1.69	1.66	2.35	1.87	MAX VEL										
DEPTH	2.39	4.64	3.85	3.41	3.77	4	9.35	7.91	3.51	9.56	DEPTH	2.39	4.65	3.85	3.41	3.77	4	9.22	7.91	3.51	9.47	DEPTH										
TIME	5.78	5.87	5.43	5.35	5.26	5.7	12.42	12.57	5.15	12.86	TIME	5.78	5.87	5.43	5.35	5.26	5.7	12.18	12.59	5.15	12.62	TIME										
NODE	861	862	863	864	865	866	867	868	869	870	NODE	861	862	863	864	865	866	867	868	869	870	NODE	861	862	863	864	865	866	867	868	869	870
ELEVATION	135.11	135.25	135.37	135.49	135.63	135.79	135.98	136.18	136.43	136.72	ELEVATION	135.09	135.23	135.35	135.47	135.61	135.77	135.95	136.16	136.4	136.69	ELEVATION	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.03
MAX DEPTH	8.28	9.01	8.93	9.4	8.11	7.58	7.01	7.18	7.37	7.59	MAX DEPTH	8.26	8.99	8.91	9.38	8.09	7.56	6.98	7.16	7.34	7.56	MAX DEPTH	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.03
VELOCITY	1.79	1.93	1.78	1.8	1.76	1.77	1.8	1.97	2.26	2.46	VELOCITY	1.79	1																			

FME006452

Segment 03

TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)																		
PROP										EXIS										DIFF																		
NODE	891	892	893	894	895	896	897	898	899	900	NODE	891	892	893	894	895	896	897	898	899	900	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ELEVATION	164.76	128.09	130.92	134.67	135.08	134.08	134.1	134.11	134.14	134.19	ELEVATION	164.76	128.09	130.92	134.67	135.08	134.07	134.08	134.09	134.12	134.18	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	0	0	0	0	0	11.91	12.73	13.18	14.96	14.52	MAX DEPTH	0	0	0	0	0	11.9	12.71	13.16	14.94	14.51	MAX DEPTH	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01		
VELOCITY	0	0	0	0	0	1.26	1.48	1.56	2.54	2.7	VELOCITY	0	0	0	0	0	1.25	1.48	1.56	2.54	2.7	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01		
TIME	0	0	0	0	0	23.97	22.5	21.25	21.25	22.77	TIME	0	0	0	0	0	22.96	22.96	22.96	22.96	23.56	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MAX VEL	0	0	0	0	0	1.26	1.48	1.56	2.54	2.7	MAX VEL	0	0	0	0	0	1.25	1.48	1.56	2.54	2.7	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01		
DEPTH	0	0	0	0	0	11.91	2.13	3.35	4.04	3.66	DEPTH	0	0	0	0	0	11.89	2.13	3.35	4.04	3.66	DEPTH	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	
TIME	0	0	0	0	0	20.46	5.83	5.86	5.54	5.43	TIME	0	0	0	0	0	20.92	5.83	5.86	5.54	5.43	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	901	902	903	904	905	906	907	908	909	910	NODE	901	902	903	904	905	906	907	908	909	910	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ELEVATION	134.25	134.34	134.43	134.53	134.63	134.75	134.84	134.94	135.1	135.24	ELEVATION	134.24	134.32	134.41	134.51	134.62	134.73	134.82	134.93	135.08	135.22	ELEVATION	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	
MAX DEPTH	13.63	11.79	10.06	8.97	8.92	10.61	9.27	9.77	8.51	8.78	MAX DEPTH	13.62	11.77	10.04	8.95	8.91	10.59	9.25	9.76	8.49	8.76	MAX DEPTH	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	
VELOCITY	2.5	2.21	1.98	1.61	1.75	1.78	1.69	1.79	1.85	1.74	VELOCITY	2.5	2.21	1.98	1.6	1.75	1.78	1.69	1.78	1.84	1.73	VELOCITY	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	
TIME	22.77	22.77	22.81	22.79	22.8	22.78	22.78	22.78	21.09	21.52	TIME	23.25	20.57	22.71	22.68	22.69	22.4	21.69	23.47	23.62	23.62	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MAX VEL	2.5	2.21	1.98	1.61	1.75	1.78	1.69	1.79	1.85	1.74	MAX VEL	2.5	2.21	1.98	1.6	1.75	1.78	1.69	1.78	1.84	1.73	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FME006453

Segment 03

TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

[illegible]

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	NODE	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	NODE	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050
ELEVATION	133.92	133.94	133.97	134.01	134.05	134.14	134.24	134.33	134.42	134.45	ELEVATION	133.91	133.93	133.95	133.99	134.04	134.12	134.23	134.32	134.41	134.43	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	10.82	8.75	7.61	7.34	10.68	8.43	7.5	7	6.61	9.53	MAX DEPTH	10.81	8.74	7.59	7.32	10.67	8.41	7.49	6.99	6.6	9.51	MAX DEPTH	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.02
VELOCITY	1.67	1.5	1.39	1.47	1.69	1.65	1.59	1.54	1.58	3.04	VELOCITY	1.67	1.5	1.39	1.47	1.69	1.64	1.59	1.54	1.57	3.03	VELOCITY	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.02
TIME	22.75	22.75	22.77	22.77	22.79	22.79	22.79	22.78	23.07	23.07	TIME	22.56	22.56	23.25	22.34	22.37	22.37	22.37	22.37	22.38	23.48	TIME										
MAX VEL	1.67	1.5	1.39	1.47	1.69	1.65	1.59	1.54	1.58	3.04	MAX VEL	1.67	1.5	1.39	1.47	1.69	1.64	1.59	1.54	1.58	3.03	MAX VEL										
DEPTH	10.82	8.75	7.61	7.33	10.68	8.05	7.14	6.61	6.61	1.35	DEPTH	10.81	8.74	7.59	7.32	10.67	8.07	7.03	6.57	6.6	1.35	DEPTH										
TIME	23.85	20.8	20.81	18.08	21.91	12.95	12.95	12.81	23.91	5.74	TIME	20.51	20.51	18.43	18.43	23.1	13.06	12.67	12.74	22.68	5.74	TIME										
NODE	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	NODE	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	NODE	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060
ELEVATION	134.52	134.65	134.79	134.97	135.14	135.29	135.41	135.49	135.59	135.84	ELEVATION	134.5	134.63	134.76	134.94	135.11	135.26	135.37	135.45	135.54	135.82	ELEVATION	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.02
MAX DEPTH	9.87	8.83	8.3	9.11	9.91	10.69	11.43	12.14	10.21	10.73	MAX DEPTH	9.85	8.81	8.27	9.08	9.88	10.66	11.39	12.1	10.16	10.71	MAX DEPTH	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.02
VELOCITY	2.59	1.95	1.87	2.26	2.28	2.22	2.24	2.37	2.48	2.56	VELOCITY	2.59	1.94	1.85	2.24	2.26	2.19	2.2	2.33	2.53	2.75	VELOCITY										
TIME	23.07	23.03	23.03	23.04	23.07	23.07	23.37	23.38	20.59	23.38	TIME	22.62	22.62	22.62	23.18	21.58	21.59	22.5	21.88	21.75	21.74	TIME										
MAX VEL	2.59	1.95	1.87	2.26	2.28	2.22	2.24	2.37	2.48	2.56	MAX VEL	2.59	1.94	1.85	2.24	2.26	2.19	2.2	2.33	2.53	2.75	MAX VEL										
DEPTH	1.56	8.44	8.29	8.96	9.36	10.37	11.42	12.14	10.21	10.47	DEPTH	1.57	8.42	8.26	8.89	9.3	10.26	11.39	12.1	10.16	10.32	DEPTH										
TIME	5.83	12.71	18.36	13.7	12.19	12.8	18.62	23.37	21.49	12.92	TIME	5.84	12.7	16.21	13.39	12.09	12.51	23.55	21.88	19.52	12.46	TIME										
NODE	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	NODE	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	NODE	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070
ELEVATION	136.53	137.21	137.46	137.6	137.71	137.84	137.94	138.02	138.04	138.03	ELEVATION	136.53	137.18	137.45	137.59	137.7	137.83	137.93	138.01	138.03	138.02	ELEVATION	0.00	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MAX DEPTH	8.88	9.9	11.43	10.09	7.72	3.43	3.44	4.86	5.64	4.71	MAX DEPTH	8.88	9.87	11.42	10.08	7.71	3.42	3.43	4.85	5.63	4.7	MAX DEPTH	0.00	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
VELOCITY	3.42	3.44	2.22	1.61	1.23	0.81	0.7	1.09	1.33	1.38	VELOCITY	3.49	3.37	2.22	1.6	1.23	0.81	0.7	1.08	1.32	1.37	VELOCITY										
TIME	22.68	22.27	22.4	22.4	22.41	22.82	22.82	21.81	21.81	21.81	TIME	23.66	23.67	22.83	22.83	22.83	22.54	22.54	22.54	22.54	22.54	TIME										
MAX VEL	3.42	3.44	2.22	1.61	1.23	0.81	0.7	1.09	1.33	1.38	MAX VEL	3.49	3.37	2.22	1.6	1.23	0.81	0.7	1.08	1.32	1.37	MAX VEL										
DEPTH	8.79	9.9	10.94	9.62	7.48	3.26	3.04	4.86	5.64	4.71	DEPTH	8.88	9.87	11.21	9.68	7.51	3.24	3.1	4.85	5.63	4.7	DEPTH										
TIME	14.01	21.44	12.09	12.1	12.72	12.96	12.11	22.82	22.82	21.81	TIME	23.68	19.25	12.88	12.22	12.88	12.26	22.54	22.54	22.54	22.54	TIME										
NODE	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	NODE	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	NODE	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080
ELEVATION	137.9	137.71	137.62	137.63	144.59	141.49	139.95	148.87	153.73	154.47	ELEVATION	137.89	137.7	137.61	137.62	144.59	141.49	139.95	148.87	153.73	154.47	ELEVATION	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	2.79	1.89	3.22	0.49	0	0	0	0	0	0	MAX DEPTH	2.78	1.88	3.21	0.48	0	0	0	0	0	0	MAX DEPTH	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.96	0.75	1.05	0.22	0	0	0	0	0	0	VELOCITY	0.96	0.75	1.04	0.21	0	0	0	0	0	0	VELOCITY										
TIME	21.81	21.8	21.84	21.84	0	0	0	0	0	0	TIME	22.55	22.55	22.71	22.7	0	0	0	0	0	0	TIME										
MAX VEL	0.96	0.75	1.05	0.22	0	0	0	0	0	0	MAX VEL	0.96	0.75	1.04	0.21	0	0	0	0	0	0	MAX VEL										
DEPTH	2.79	1.89	3.22	0.49	0	0	0	0	0	0	DEPTH	2.78	1.88	3.21	0.48	0	0	0	0	0	0	DEPTH										
TIME	21.81	21.8	21.84	21.84	0	0	0	0	0	0	TIME	22.96	22.55	22.7	22.7	0	0	0	0	0	0	TIME										
NODE	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	NODE	1081	1082	1083	1084	1085	1086	1087	1088	1089	10											

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	NODE	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	NODE	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130
ELEVATION	137.24	138.28	141.48	140.55	146.93	152.24	163.84	157.54	123.98	125.46	ELEVATION	137.23	138.28	141.48	140.55	146.93	152.24	163.84	157.54	123.98	125.46	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	2.39	0	0	0	0	0	0	0	0	0	MAX DEPTH	2.38	0	0	0	0	0	0	0	0	0	MAX DEPTH	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	0.81	0	0	0	0	0	0	0	0	0	VELOCITY	0.81	0	0	0	0	0	0	0	0	0	VELOCITY	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	21.86	0	0	0	0	0	0	0	0	0	TIME	22.73	0	0	0	0	0	0	0	0	0	TIME	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	0.81	0	0	0	0	0	0	0	0	0	MAX VEL	0.81	0	0	0	0	0	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0
DEPTH	2.39	0	0	0	0	0	0	0	0	0	DEPTH	2.38	0	0	0	0	0	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0
TIME	21.86	0	0	0	0	0	0	0	0	0	TIME	20.48	0	0	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	NODE	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	NODE	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140
ELEVATION	129.29	135.38	133.61	133.6	133.61	133.6	133.61	133.62	133.64	133.67	ELEVATION	129.29	135.38	133.6	133.59	133.59	133.59	133.59	133.6	133.63	133.66	ELEVATION	0.00	0.00	0.01	0.01	0.02	0.01	0.02	0.02	0.01	0.01
MAX DEPTH	0	0	1.02	16.68	13.33	10.69	9.76	8.14	6.8	10.75	MAX DEPTH	0	0	1.01	16.67	13.31	10.68	9.74	8.12	6.79	10.74	MAX DEPTH	0.00	0.00	0.01	0.01	0.02	0.01	0.02	0.02	0.01	0.01
VELOCITY	0	0	0.38	4.02	2.46	1.88	1.86	1.63	1.53	2.21	VELOCITY	0	0	0.38	4.03	2.46	1.88	1.86	1.63	1.52	2.21	VELOCITY	0	0	0	0	0	0	0	0	0	0
TIME	0	0	22.63	22.75	22.63	22.78	22.65	21.56	22.78	22.78	TIME	0	0	22.31	23.24	22.52	22.22	23.75	23	23	22.48	TIME	0	0	0	0	0	0	0	0	0	0
MAX VEL	0	0	0.38	4.02	2.46	1.88	1.86	1.63	1.53	2.21	MAX VEL	0	0	0.38	4.03	2.46	1.88	1.86	1.63	1.52	2.21	MAX VEL	0	0	0	0	0	0	0	0	0	0
DEPTH	0	0	1.02	5.51	7.36	5.22	9.74	8.13	6.8	5.84	DEPTH	0	0	1.01	5.51	7.36	5.22	9.74	8.12	6.79	5.84	DEPTH	0	0	0	0	0	0	0	0	0	0
TIME	0	0	19.96	6	7.51	7.76	16.46	18.47	18.47	7.79	TIME	0	0	20.05	6	7.51	7.76	19.97	21.5	20.52	7.79	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	NODE	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	NODE	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150
ELEVATION	133.72	133.78	133.88	134	134.12	134.19	134.19	134.22	134.29	134.35	ELEVATION	133.7	133.77	133.86	133.99	134.11	134.17	134.18	134.21	134.27	134.33	ELEVATION	0.02	0.01	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.02
MAX DEPTH	8.84	7.63	6.36	5.47	8.65	13.33	9.5	8.82	7.8	6.42	MAX DEPTH	8.82	7.62	6.34	5.46	8.64	13.31	9.49	8.81	7.78	6.4	MAX DEPTH	0.02	0.01	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.02
VELOCITY	1.79	1.7	1.55	1.52	2.25	3.43	1.72	1.97	1.97	1.9	VELOCITY	1.78	1.69	1.55	1.52	2.24	3.43	1.7	1.95	1.95	1.88	VELOCITY	0	0	0	0	0	0	0	0	0	0
TIME	22.8	22.8	22.81	23.08	23.05	23.05	23.05	23.07	23.07	23.07	TIME	22.49	22.49	22.37	22.87	22.39	22.63	22.39	22.31	22.32	TIME	0	0	0	0	0	0	0	0	0	0	
MAX VEL	1.79	1.7	1.55	1.52	2.25	3.43	1.72	1.97	1.97	1.9	MAX VEL	1.78	1.69	1.55	1.52	2.24	3.43	1.7	1.95	1.95	1.88	MAX VEL	0	0	0	0	0	0	0	0	0	0
DEPTH	8.84	7.63	6.36	5.27	8.65	4.9	9.5	8.82	7.8	6.42	DEPTH	8.82	7.62	6.34	5.16	8.64	4.9	9.49	8.81	7.78	6.4	DEPTH	0	0	0	0	0	0	0	0	0	0
TIME	22.05	20.87	22.78	13.61	22.88	6.11	18.37	18.37	20.93	20.39	TIME	18.71	21.5	20.66	13.16	20.29	6.11	23.91	23.91	23.92	23.91	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	NODE	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	NODE	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160
ELEVATION	134.38	134.4	134.39	134.37	134.32	134.57	136.84	137.82	136.98	137.51	ELEVATION	134.37	134.4	134.4	134.39	134.38	134.39	136.84	137.82	136.97	137.51	ELEVATION	0.01	0.00	-0.01	-0.02	-0.06	0.18	0.00	0.00	0.01	0.00
MAX DEPTH	4.75	4.53	5.36	6.63	7.15	5.64	0	0	0.45	0.1	MAX DEPTH	4.74	4.53	5.37	6.65	7.21	5.46	0	0	0.44	0.1	MAX DEPTH	0.01	0.00	-0.01	-0.02	-0.06	0.18	0.00	0.00	0.01	0.00
VELOCITY	1.87	1.93	2.26	2.73	3.05	3.19	0	0	0.82	0.09	VELOCITY	1.84	1.9	2.23	2.69	3.05	2.97	0	0	0.81	0	VELOCITY	0	0	0	0	0	0	0	0	0	0
TIME	23.06	23.06	22.37	22.37	22.37	22.16	0	0	22.48	23.91	TIME	22.38	22.38	22.38	22.39	22.37	22.38	0	0	22.37	20.32	TIME	0	0	0	0	0	0	0	0	0	0
MAX VEL	1.87	1.93	2.26	2.73	3.05	3.19	0	0	0.82	0.09	MAX VEL	1.84	1.9	2.23	2.69	3.05	2.97	0	0													

FME006456

Segment 03

TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (PROPOSED - EXISTING)											
PROP											EXIS											DIFF											
NODE	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	NODE	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	133.57	133.54	133.39	132.84	132.56	132.51	133.27	136.21	136.46	136.52	ELEVATION	133.64	133.46	133.22	132.79	132.62	132.6	133.27	136.14	136.21	136.48	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	7.4	7.54	1.8	1.25	2.14	1.29	0.2	0.34	1.27	1.96	MAX DEPTH	7.47	7.46	1.63	1.2	2.2	1.38	0.2	0.27	1.02	1.92	MAX DEPTH	-0.07	0.08	0.17	0.05	-0.06	-0.09	0.00	0.07	0.25	0.04	0.04
VELOCITY	2.44	2.61	1.17	0.61	0.32	0.18	0.17	0.53	0.91	1.22	VELOCITY	2.43	2.5	0.92	0.46	0.39	0.23	0.16	0.52	1.31	1.2	VELOCITY	-0.07	0.08	0.17	0.05	-0.06	-0.09	0.00	0.07	0.25	0.04	0.04
TIME	20.97	20.96	20.99	19.03	19.01	19.02	23.47	22.48	21.9	21.87	TIME	18.47	18.46	18.48	18.48	18.46	21.21	20.87	15.84	23.96	22.73	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX VEL	2.44	2.61	1.17	0.61	0.32	0.18	0.17	0.53	0.91	1.22	MAX VEL	2.43	2.5	0.92	0.46	0.39	0.24	0.16	0.52	1.31	1.2	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	7.12	7.28	1.8	1.24	2.08	1.29	0.2	0.34	1.27	1.96	DEPTH	7.46	7.16	1.62	1.19	2.18	1.37	0.2	0.27	1.02	1.92	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	13.23	13.28	23.11	19.06	16.76	19.02	19.33	22.02	21.91	22.87	TIME	21.76	13.13	23.85	18.53	18.45	21.33	20.93	15.83	22.78	22.59	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	NODE	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	136.6	136.61	136.61	136.61	136.62	139.72	146.98	145.37	149.85	155.65	ELEVATION	136.58	136.6	136.59	136.6	136.61	139.72	146.98	145.37	149.85	155.65	ELEVATION	0.02	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	2.47	2.64	2.76	2.71	3.29	0	0	0	0	0	MAX DEPTH	2.45	2.63	2.74	2.7	3.28	0	0	0	0	0	MAX DEPTH	0.02	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.21	1.12	1.14	1.09	1.07	0	0	0	0	0	VELOCITY	1.21	1.12	1.14	1.09	1.07	0	0	0	0	0												

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	NODE	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	NODE	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380
ELEVATION	132.72	132.71	132.72	132.73	132.72	132.69	132.62	132.65	132.61	132.56	ELEVATION	132.72	132.71	132.72	132.74	132.74	132.72	132.65	132.68	132.65	132.61	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	6.37	5.9	4.73	3.78	5.37	10.78	13.36	6.98	7.52	11.87	MAX DEPTH	6.37	5.9	4.73	3.79	5.39	10.81	13.39	7.01	7.56	11.92	MAX DEPTH	0.00	0.00	0.00	-0.01	-0.02	-0.03	-0.03	-0.03	-0.04	-0.05
VELOCITY	1.62	1.61	1.38	1.21	1.27	1.51	1.66	1.43	1.21	1.32	VELOCITY	1.61	1.61	1.35	1.22	1.27	1.5	1.63	1.44	1.22	1.31	VELOCITY	0.00	0.00	0.00	-0.01	-0.02	-0.03	-0.03	-0.03	-0.04	-0.05
TIME	22.82	22.94	22.49	22.5	22.51	22.51	21.12	22.57	22.57	19.02	TIME	22.85	22.85	22.26	22.28	22.08	22.07	22.06	22.06	22.05	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MAX VEL	1.62	1.61	1.38	1.21	1.27	1.51	1.66	1.43	1.21	1.32	MAX VEL	1.61	1.61	1.35	1.22	1.27	1.5	1.63	1.44	1.22	1.31	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	6.37	5.9	4.73	3.72	5.37	10.78	13.36	6.98	7.52	3.35	DEPTH	6.37	5.9	4.73	3.79	5.38	10.81	13.39	7.01	7.56	3.39	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	22.82	22.94	18.99	15.09	20.02	23.12	23.12	21.04	19.02	6.95	TIME	22.85	22.26	23.32	22.28	21.41	22.28	23.86	18.48	18.48	6.94	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NODE	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	NODE	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	NODE	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390
ELEVATION	132.53	132.5	132.47	132.45	132.44	132.43	132.45	132.44	132.45	132.8	ELEVATION	132.58	132.56	132.53	132.52	132.51	132.5	132.51	132.52	132.54	132.84	ELEVATION	-0.05	-0.06	-0.06	-0.07	-0.07	-0.07	-0.06	-0.08	-0.09	-0.04
MAX DEPTH	10.5	11.67	10.65	8.41	7.26	7.87	11.1	7.74	7.44	2.99	MAX DEPTH	10.55	11.73	10.71	8.48	7.33	7.94	11.16	7.82	7.53	3.03	MAX DEPTH	-0.05	-0.06	-0.06	-0.07	-0.07	-0.07	-0.06	-0.08	-0.09	-0.04
VELOCITY	1.2	1.28	1.22	1.53	0.72	0.71	0.9	2.08	0.71	1.17	VELOCITY	1.23	1.25	1.22	1.54	0.77	0.74	0.96	1.97	0.79	1.15	VELOCITY										
TIME	19.02	19.02	19.02	19.01	21.2	21.99	21.03	22.13	22.12	23.51	TIME	21.22	21.21	21.21	21.2	23.72	23.4	23.46	19.78	19.19	19.78	TIME										
MAX VEL	1.2	1.28	1.22	1.53	0.72	0.72	0.9	2.08	0.71	1.17	MAX VEL	1.23	1.25	1.22	1.54	0.77	0.74	0.96	1.97	0.8	1.15	MAX VEL										
DEPTH	10.5	2.28	1.8	1.11	7.26	7.87	11.09	1	1.99	2.98	DEPTH	10.55	2.74	10.71	1.16	7.31	7.93	11.16	0.94	7.53	3.02	DEPTH										
TIME	19.01	6.94	6.96	6.87	22.29	22.28	18.69	6.9	7.4	19	TIME	18.48	6.96	18.48	6.89	16.62	18.48	21.72	6.91	19.77	18.09	TIME										
NODE	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	NODE	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	NODE	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400
ELEVATION	134.71	135.39	135.66	135.76	135.78	136.84	143.78	144.4	126.09	131.95	ELEVATION	134.7	135.38	135.65	135.74	135.76	136.84	143.78	144.4	126.09	131.95	ELEVATION	0.01	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	1.66	2.87	3.65	4.13	2.63	0	0	0	0	0	MAX DEPTH	1.65	2.86	3.64	4.11	2.61	0	0	0	0	0	MAX DEPTH	0.01	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00
VELOCITY	1.53	1.21	1.35	0.72	0.25	0	0	0	0	0	VELOCITY	1.5	1.21	1.34	0.71	0.25	0	0	0	0	0	VELOCITY										
TIME	23.51	22.08	22.07	22.07	22.06	0	0	0	0	0	TIME	23.95	23.99	23.08	22.93	22.92	0	0	0	0	0	TIME										
MAX VEL	1.53	1.21	1.35	0.72	0.25	0	0	0	0	0	MAX VEL	1.5	1.21	1.34	0.71	0.25	0	0	0	0	0	MAX VEL										
DEPTH	1.65	2.87	3.65	4.13	2.62	0	0	0	0	0	DEPTH	1.65	2.86	3.64	4.11	2.61	0	0	0	0	0	DEPTH										
TIME	19.03	22.34	22.07	22.22	22.67	0	0	0	0	0	TIME	18.48	22.78	22.78	22.92	22.95	0	0	0	0	0	TIME										
NODE	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	NODE	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	NODE	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410
ELEVATION	134.53	132.92	132.89	132.86	132.82	132.78	132.73	132.68	132.63	132.59	ELEVATION	134.53	132.91	132.88	132.85	132.81	132.77	132.72	132.67	132.62	132.58	ELEVATION	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)											
PROP											EXIS										DIFF											
NODE	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	NODE	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	132.33	132.34	132.35	132.36	132.38	132.4	132.42	133.41	134.03	134.29	ELEVATION	132.38	132.39	132.4	132.42	132.44	132.47	132.49	133.41	134.02	134.28	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX DEPTH	16.83	8.46	7.02	7.07	7.5	8.61	3.95	0.8	1.63	2.24	MAX DEPTH	16.88	8.51	7.07	7.13	7.56	8.68	4.02	0.8	1.62	2.23	MAX DEPTH	-0.05	-0.05	-0.05	-0.06	-0.06	-0.07	-0.07	0.00	0.01	0.01
VELOCITY	1.51	1.68	0.9	0.86	1.06	0.91	0.49	0.61	0.76	0.94	VELOCITY	1.61	1.69	0.93	0.88	1.12	0.98	0.52	0.59	0.76	0.94	VELOCITY	-0.05	-0.05	-0.05	-0.06	-0.06	-0.07	-0.07	0.00	0.01	0.01
TIME	22	21.24	21.34	21.27	20.74	21.94	21.94	23.62	23.57	23.57	TIME	20.36	23.72	23.7	23.7	21.17	23.93	23.94	23.95	23.96	23.96	TIME										
MAX VEL	1.51	1.68	0.9	0.86	1.06	0.91	0.49	0.61	0.76	0.94	MAX VEL	1.61	1.69	0.93	0.88	1.12	0.98	0.52	0.59	0.76	0.94	MAX VEL										
DEPTH	8.78	0.8	6.99	7.07	0.89	8.61	3.94	0.8	1.63	2.24	DEPTH	8.79	0.77	7.07	7.13	0.97	8.68	4.02	0.8	1.62	2.23	DEPTH										
TIME	6.87	6.68	16.03	21.27	6.95	21.94	19.63	19.01	22.46	22.04	TIME	6.86	6.67	19.64	23.99	6.97	23.49	23.94	18.47	22.4	23.95	TIME										
NODE	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	NODE	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	127.2	132.93	134.44	132.76	132.73																											

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	NODE	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	NODE	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540
ELEVATION	132.21	132.22	132.24	132.21	132.22	132.25	132.27	132.33	132.4	132.59	ELEVATION	132.25	132.26	132.28	132.26	132.27	132.3	132.32	132.38	132.44	132.61	ELEVATION	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540
MAX DEPTH	11.82	12.5	15.34	8.48	6.01	10.44	7.23	1.26	1.4	1.09	MAX DEPTH	11.86	12.54	15.38	8.53	6.06	10.49	7.28	1.31	1.44	1.11	MAX DEPTH	-0.04	-0.04	-0.04	-0.05	-0.05	-0.05	-0.05	-0.05	-0.04	-0.02
VELOCITY	2.41	2.01	1.59	1.81	1.21	1.41	1.46	0.39	0.31	0.4	VELOCITY	2.42	2	1.63	1.86	1.26	1.46	1.54	0.41	0.32	0.37	VELOCITY	-0.04	-0.04	-0.04	-0.05	-0.05	-0.05	-0.05	-0.05	-0.04	-0.02
TIME	20.78	20.78	23.72	22	20.73	21.94	21.95	20.84	20.84	23.73	TIME	20.36	20.36	20.36	23.3	23.68	23.7	23.7	23.72	23.76	23.54	TIME										
MAX VEL	2.41	2.01	1.59	1.81	1.21	1.41	1.46	0.39	0.31	0.4	MAX VEL	2.42	2	1.63	1.86	1.26	1.46	1.54	0.41	0.32	0.37	MAX VEL										
DEPTH	2.71	1.82	15.34	8.48	6.01	10.44	0.87	1.26	0.89	0.72	DEPTH	2.72	1.81	15.38	8.53	6.06	10.49	0.93	1.31	0.91	0.68	DEPTH										
TIME	6.63	6.57	21.11	23.01	20.73	21.69	6.97	20.95	12.74	12.55	TIME	6.62	6.56	23.08	20.34	23.68	23.68	6.99	23.49	12.7	12.5	TIME										
NODE	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550	NODE	1541	1542	1543	1544	1545	1546	1547	1548	1549	155											

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)											EXISTING CONDITION (NO FENCE)											DIFFERENCE (PROPOSED - EXISTING)										
PROP											EXIS											DIFF										
NODE	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	NODE	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	NODE	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620
ELEVATION	132.18	132.17	131.95	131.82	132.8	133.47	133.2	132.18	132.23	132.35	ELEVATION	132.2	132.19	131.96	131.82	132.8	133.47	133.2	132.17	132.22	132.34	ELEVATION	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620
MAX DEPTH	0.27	0.41	1.04	1.76	0	0	0	2.54	1.65	0.07	MAX DEPTH	0.29	0.43	1.05	1.76	0	0	0	2.53	1.64	0.06	MAX DEPTH	-0.02	-0.02	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
VELOCITY	0.17	0.26	0.53	0.81	0	0	0	0.64	0.6	0	VELOCITY	0.18	0.27	0.53	0.81	0	0	0	0.63	0.59	0	VELOCITY	-0.02	-0.02	-0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
TIME	23.94	23.96	23.96	24	0	0	0	18.98	18.97	24	TIME	23.85	23.85	24	24	0	0	0	19.27	19.26	24	TIME										
MAX VEL	0.17	0.26	0.53	0.81	0	0	0	0.64	0.6	0	MAX VEL	0.18	0.27	0.53	0.81	0	0	0	0.63	0.59	0	MAX VEL										
DEPTH	0.26	0.41	1	1.34	0	0	0	1.99	1.17	0	DEPTH	0.29	0.43	1.05	1.33	0	0	0	1.98	1.17	0	DEPTH										
TIME	15.32	23.95	15.43	12.6	0	0	0	13.51	13.51	0	TIME	23.84	23.84	23.78	12.6	0	0	0	13.52	13.52	0	TIME										
NODE	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	NODE	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	NODE	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630
ELEVATION	132.17	132.01	131.89	131.77	131.65	131.53	131.43	131.35	131.31	131.28	ELEVATION	132.16	132	131.88	131.76	131.64	131.53	131.42	131.34	131.3	131.28	ELEVATION	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630
MAX DEPTH	1.84	13.43	13.38	13.25	12.46	11.57	10.08	10.23	9.59	9.26	MAX DEPTH	1.83	13.42	13.37	13.24	12.45	11.57	10.07	10.22	9.58	9.26	MAX DEPTH	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00
VELOCITY	0.62	2.42	2.47	2.44	2.47	2.31	2.15	2.09	2.01	1.96	VELOCITY	0.62	2.42	2.47	2.44	2.48	2.32	2.15	2.1	2.02	1.97	VELOCITY	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00
TIME	23	22.99	22.98	22.98	22.86	22.7	22.69	22.69	22.68	22.6	TIME	22.71	22.7	22.71	22.71	22.61	22.6	22.51	22.5	22.59	22.59	TIME										
MAX VEL	0.62	2.42	2.47	2.44	2.47	2.31	2.15	2.																								

FME006462

Segment 03

TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)												
PROP										EXIS										DIFF												
NODE	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720	NODE	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720	NODE	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720
ELEVATION	130.37	130.28	130.29	130.36	130.97	130.84	130.97	131.12	131.22	129.17	ELEVATION	130.4	130.31	130.32	130.38	130.97	130.86	130.99	131.13	131.23	129.17	ELEVATION	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720
MAX DEPTH	4.83	3.99	3.2	2.09	0.1	0.67	1.9	2.19	1.51	0	MAX DEPTH	4.86	4.02	3.23	2.11	0.1	0.69	1.92	2.2	1.52	0	MAX DEPTH	-0.03	-0.03	-0.03	-0.02	0.00	-0.02	-0.02	-0.01	-0.01	0.00
VELOCITY	2.03	1.93	1.88	1.3	0.07	0.34	0.68	0.7	0.32	0	VELOCITY	2.05	1.95	1.9	1.32	0.07	0.34	0.68	0.7	0.32	0	VELOCITY	-0.03	-0.03	-0.03	-0.02	0.00	-0.02	-0.02	-0.01	-0.01	0.00
TIME	23.74	23.74	23.72	23.73	21.83	22.54	24	24	23.95	0	TIME	23.77	23.77	23.78	23.79	24	24	24	24	24	0	TIME										
MAX VEL	2.03	1.93	1.88	1.3	0.07	0.34	0.68	0.7	0.32	0	MAX VEL	2.05	1.95	1.9	1.32	0.07	0.34	0.68	0.7	0.32	0	MAX VEL										
DEPTH	4.83	3.99	3.2	2.09	0.1	0.67	1.9	2.19	1.51	0	DEPTH	4.86	4.02	3.23	2.11	0.1	0.69	1.92	2.2	1.52	0	DEPTH										
TIME	22.02	23.7	23.67	23.69	21.22	22.54	24	23.98	23.88	0	TIME	23.73	23.73	20.41	23.76	23.98	24	24	23.98	23.9	0	TIME										
NODE	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730	NODE	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730	NODE	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730
ELEVATION	131.66	132.79	132.68	131.23	131.22	132.14	132.06	131.08	131.04	130.81	ELEVATION	131.66	132.79	132.68	131.22	131.21	132.14	132.06	131.07	131.03	130.79	ELEVATION	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.02
MAX DEPTH	0	0	0	3.02	0.82	0	0	4.8	11.53	11.07	MAX DEPTH	0	0	0	3.01	0.81	0	4.79	11.52	11.05	MAX DEPTH	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.02	
VELOCITY	0	0	0	1.12	0.47	0	0	2.64	4.21	4.18	VELOCITY	0	0	0	1.12	0.47	0	2.63	4.17	4.46	VELOCITY											
TIME	0	0	0	18.91	18.91	0	0	2																								

Segment O3
TABLE 3A: COMPARISON OF MAXIMUM WATER SURFACE ELEVATIONS

PROPOSED CONDITION (WITH FENCE)										EXISTING CONDITION (NO FENCE)										DIFFERENCE (PROPOSED - EXISTING)													
PROP										EXIS										DIFF													
NODE	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800	NODE	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800	NODE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ELEVATION	131.28	132.69	133.67	130.39	130.39	128.09	128.7	126.43	127.87	129	ELEVATION	131.28	132.69	133.67	130.38	130.38	128.09	128.7	126.43	127.88	129	ELEVATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MAX DEPTH	0	0	0	2.38	2.38	0.52	3.64	5.85	7.29	8.42	MAX DEPTH	0	0	0	2.37	2.37	0.52	3.64	5.85	7.3	8.42	MAX DEPTH	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	-0.01	0.00	
VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	-0.01	0.00	
TIME	0	0	0	18.91	18.91	23.15	11.66	11.66	23.13	23.13	TIME	0	0	0	19.21	19.21	22.64	11.67	11.67	22.62	22.62	TIME	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	-0.01	0.00	
MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TIME	0	0	0	0	0	0	0	0	0	0	TIME	0	0	0	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	NODE	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	NODE	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	
ELEVATION	128.59	127.4	126.38	124.91	127.09	127.89	128.32	127.51	125.32	125.54	ELEVATION	128.6	127.4	126.36	124.88	127.05	127.88	128.32	127.51	125.33	125.54	ELEVATION	-0.01	0.00	0.02	0.03	0.04	0.01	0.00	0.00	-0.01	0.00	
MAX DEPTH	7.89	8.27	7.25	6.42	4.76	4.73	4.45	4.43	4.75	5.43	MAX DEPTH	7.9	8.27	7.23	6.39	4.72	4.72	4.45	4.43	4.76	5.43	MAX DEPTH	-0.01	0.00	0.02	0.03	0.04	0.01	0.00	0.00	-0.01	0.00	
VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TIME	23.13	22.71	22.71	23.37	23.31	23.45	23.46	23.46	23.72	23.35	TIME	22.63	22.62	22.61	22.6	23.97	23.82	23.51	22.58	23.5	23.81	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TIME	0	0	0	0	0	0	0	0	0	0	TIME	0	0	0	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	NODE	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	NODE	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	
ELEVATION	127.06	127.4	127	127.97	128.06	128.2	127.52	127.65	128.26	128.85	ELEVATION	127.07	127.41	127.01	127.98	128.07	128.22	127.54	127.68	128.28	128.86	ELEVATION	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.03	-0.02	-0.01	
MAX DEPTH	5.69	5.23	4.29	3.59	3.36	3.66	3.36	3.24	2.52	0.99	MAX DEPTH	5.7	5.24	4.3	3.6	3.37	3.68	3.38	3.27	2.54	1	MAX DEPTH	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.03	-0.02	-0.01	
VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0	0	0	0	0	0	0	0	0	0	VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TIME	23.48	23.74	23.74	23.75	23.75	23.75	23.77	14.18	13.78	24	TIME	23.79	23.78	23.79	23.79	23.79	23.82	23.81	14.16	13.78	23.89	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0	0	0	0	0	0	0	0	0	0	MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	0	0	0	0	0	0	0	0	0	0	DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TIME	0	0	0	0	0	0	0	0	0	0	TIME	0	0	0	0	0	0	0	0	0	0	TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NODE	1821	1822	1823							NODE	1821	1822	1823							NODE	1821	1822	1823										
ELEVATION	129.38	130.92	130.97							ELEVATION	129.39	130.92	130.97							ELEVATION	-0.01	0.00	0.00										
MAX DEPTH	1.52	0	0							MAX DEPTH	1.53	0	0							MAX DEPTH	-0.01	0.00	0.00										
VELOCITY	0	0	0							VELOCITY	0	0	0							VELOCITY	0.00	0.00	0.00										
TIME	22.58	0	0							TIME	24	0	0							TIME	0.00	0.00	0.00										
MAX VEL	0	0	0							MAX VEL	0	0	0							MAX VEL	0.00	0.00	0.00										
DEPTH	0	0	0							DEPTH	0	0	0							DEPTH	0.00	0.00	0.00										
TIME	0	0	0							TIME	0	0	0							TIME	0.00	0.00	0.00										

Segment O3**TABLE 3B: DEFLECTION CALCULATIONS**

Floodplain C/S	Existing Condition	Proposed Condition	Impact in US		Impact in Mexico	
	Fplain + Channel Q (cfs)	Fplain + Channel Q (cfs)	Q (cfs)	%	Q (cfs)	%
1	101190.44	101008.15	-182.29	-0.18%		
2	175343.72	175502.09			158.37	0.09%
3	95048.24	95043.63	-4.61	0.00%		
4	186144.5	186249.11			104.61	0.06%
5	184120.28	184125.77	5.49	0.00%		
6	97028.77	97082.99			54.22	0.06%
7	7100.47	7147.42	46.95	0.66%		
8	180682.72	180634.2	-48.52	-0.03%		
9	64811.11	64879.99			68.88	0.11%
10	122220.195	121415.755	-804.44	-0.66%		
11	122755.125	123635.065			879.94	0.72%
12	27156.44	27089.585			-66.86	-0.25%
13	297134.47	296549.295			-585.17	-0.20%
14	161257.645	161453.61			195.96	0.12%
15	170868.415	170694.78			-173.64	-0.10%
16	108218.78	108810.83			592.05	0.55%
17	169109.41	169454.64			345.23	0.20%
Cells						
1505, 1468, 1431,1388	5228.23	5082.89	-145.34	-2.78%		
1384 to 1388	16315.26	15679.07			-636.19	-3.90%
1378 to 1384	42294.64	41030.17	-1264.47	-2.99%		
1360 to 1378	142716.1	143269.1			553.00	0.39%
1542 to 1537	4160.92	3979.69	-181.23	-4.36%		
1537 to 1534	19137.93	18389.63			-748.30	-3.91%
1534 to 1529	44309.18	43072.02	-1237.16	-2.79%		
1529 to 1509	See above					



APPENDIX C

REFERENCE MATERIAL

MODELING APPROACH

MEETING MINUTES (FEB 23, 2001 AT USIBWC, EL PASO)

CORRESPONDENCE

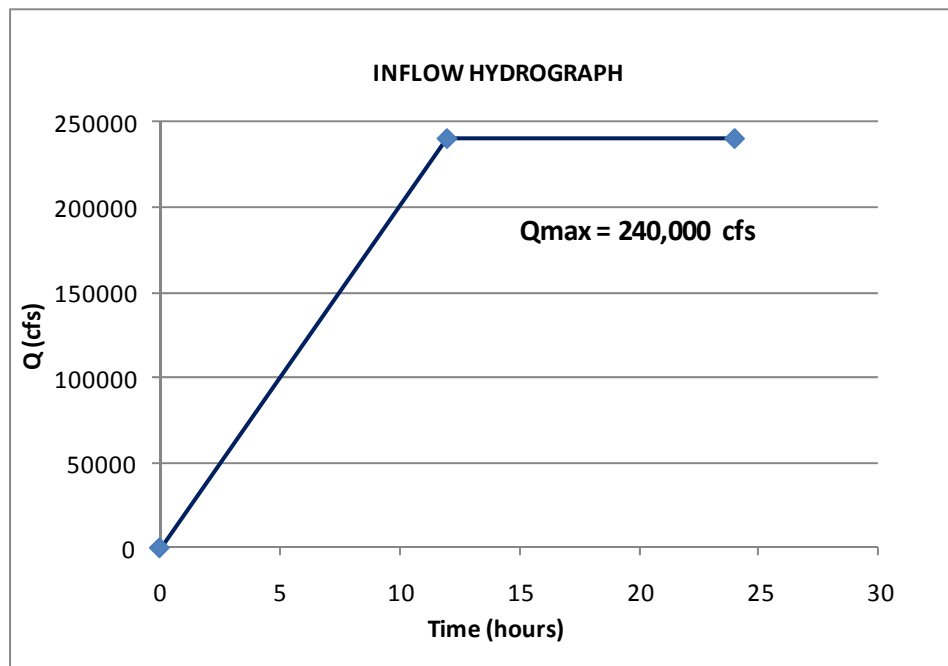
TWO-DIMENSIONAL MODELING APPROACH FOR EVALUATING HYDRAULIC IMPACTS OF RIO GRANDE FENCE SEGMENTS O1, O2 AND O3

Software and Thresholds

Baker will use the FLO-2D software (version 2009.06) by FLO-2D Software, Inc. (<http://www.flo-2d.com>) for the two-dimensional hydraulic analysis. In our modeling, Baker will attempt to meet the hydraulic impact thresholds established by US-IBWC, which are: flow diversion into Mexico of less than 5% and increases in water surface elevation (WSEL) resulting from the proposed fence of less than 3 inches and 6 inches in urban and rural locations, respectively.

Two-Dimensional Modeling Approach

The Rio Grande base discharge of 240,000 cfs based on the original US-IBWC HEC-RAS models will be used. An inflow hydrograph is required for the FLO-2D model. Because an inflow hydrograph is not available, it will be represented with discharge increasing from 0 to 240,000 cfs in 12 hours and staying constant thereafter. Simulation times of 24 hours are expected to be sufficient but will be extended if needed until steady state conditions are reached. Steady state conditions are indicated by constant or asymptotic water surface elevations in the hydrographs towards the end of the simulation. The inflow hydrograph will be included using an inflow element at the upstream end of the two-dimensional flow domain.



The criterion stated in the FLO-2D manual for the grid size is $0.1 \text{ cfs/ft}^2 < Q_{\text{peak}}/A_{\text{surf}} < 1.0 \text{ cfs/ft}^2$, where Q_{peak} is the peak discharge and A_{surf} is the surface area of the grid element. Based on this criterion, for a discharge of 240,000 cfs, the grid sizes range from 490 feet to 1550 feet. A grid element size of 500 feet will be adopted. The FLO-2D manual states that this is within the range of grid sizes for typical applications.

Grid element Manning's n values will be determined based on surface conditions as determined from the aerial image. Floodplain n values can vary over a wide range and reasonable values representative of the ground surface will be used. The FLO-2D model uses a depth variable roughness, where the specified roughness is for a flow depth of three (3) feet. Typical floodplain values of around 0.07 are proposed for vegetated floodplains, values in the range of 0.02 to 0.06 are proposed for the channel, and around 0.04 is proposed for developed areas instead of using Area Reduction Factors to represent buildings.

Manning's n values will be edited spatially as needed in response to FLO-2D model output messages to improve the quality of a simulation. This is part of the model improvement procedure as described in the FLO-2D manual. This may also involve using the global n value factor to increase n values throughout the model domain or setting limiting Froude numbers to achieve numerical stability and improved simulation results.

The main channel will be included in the model as described in the FLO-2D manual. After drawing the main channel alignment using the aerial background, representative bank to bank natural channel sections that were used for the Baker HEC-RAS modeling will be included in the model. The FLO-2D interpolation feature will be used to associate a channel with each channel element.

Major roads may be considered as non-levee embankments. In situations where the resulting water surface elevation is below the top of the non-levee embankment, these locations will be modeled using the levee feature in FLO-2D.

Multiple outflow grid elements will be selected only along the east end of the two-dimensional flow domain. Outflow elements will not be included at any other location, such as the west, north or south boundaries.

FLO-2D requires a positive bed slope for flow to enter and leave the system at the channel inflow and outflow nodes, respectively. Grid elevations will be edited as needed to provide this positive bed slope at inflow and outflow nodes.

Baker will develop two-dimensional models that run with no data error messages, have good volume conservation and have reasonably smooth hydrographs. Instability and surging are problems that can occur in a two-dimensional flow simulation. Procedures described in the FLO-2D manuals will be used to minimize or eliminate instability and surging to the extent possible.

An existing condition two-dimensional model will first be developed for each fence segment. The proposed condition model will include the pedestrian fence. Both the existing and proposed condition models will include a set of floodplain cross-sections for evaluating flow diversions. Floodplain cross-sections will be spaced approximately half mile apart. Baker confirmed with Jim O'Brien, the developer of FLO-2D, that the grid is aligned in the north-south and east-west directions and grid rotation is not required as there is no flow bias with respect to the grid orientation (email copy attached). The model outputs flow in eight directions. Baker will orient the floodplain cross-section to be perpendicular to the predominant flow direction at that location.

In the proposed condition model, (b) (6) email states that the pedestrian fence can be represented using a hydraulic structure rating table or width reduction factor (WRF). Based on US-IBWC preference, the proposed fence will be represented in FLO-2D using a hydraulic structure in each grid cell containing the fence. The hydraulic structure requires a rating table and specified inflow and outflow nodes. Therefore, there will be one rating curve for each grid cell containing the fence. Rating tables will be developed for a rectangular channel width of 500 feet to consider transverse flow and 707 feet to consider diagonal flow at a fence grid element. The percent debris will be represented by a reduction in the clear

spacing between the piers. The rating tables will be input into FLO-2D in grids containing the proposed fence. In order to keep the number of rating tables manageable, rating tables will be developed for a few values covering the range from 10% to 25% debris blockage. A location where the fence is aligned parallel to the flow is likely to intercept lesser debris and a smaller percent debris blockage of 10% will be used. At locations where the fence is aligned perpendicular to the flow, a higher value up to 25% will be used.

Once the analyses have been completed, a rough comparison of the 1D (previous HEC-RAS results) and 2D (FLO-2D results) floodplain limits will be reviewed. The purpose is not to resolve any discrepancies but to determine if there is consistency between the two results.

Hydraulic Impact Assessment

After the existing and proposed condition FLO-2D models have been finalized for a fence segment, the hydraulic impacts of the proposed fence will be evaluated. The percent differences in discharges between the proposed and existing conditions at the floodplain cross-sections will be calculated to determine if the flow diversion threshold has been met. The rise in computed water surface elevations between proposed and existing conditions will be calculated for each grid element to determine if the WSEL threshold has been met. If the hydraulic impacts exceed the US-IBWC thresholds, the fence design will be modified or gates included to suitably adjust the models until the thresholds are met.

REFERENCES

FLO-2D Data Input Manual, Version 2009.06, FLO-2D Software, Inc., 2009.

<http://www.flo-2d.com/downloads/flo-2d-2009-documentation/>

FLO-2D Grid Developer System (GDS) Manual, Version 2009.06, FLO-2D Software, Inc., 2009.

FLO-2D Mapper Manual, Version 2009.06, FLO-2D Software, Inc., 2009.

FLO-2D Reference Manual, Version 2009.06, FLO-2D Software, Inc., 2009.

PF 225 Phase II Final Drainage Report, Fence Segments 01, 02, 03, Rio Grande Floodplain Analysis, Starr County and Hidalgo County, Texas, Contract No. W9126G-07-D-0009, prepared by Michael Baker Jr., Inc. for the U. S. Army Corps of Engineers, Fort Worth District, Texas, December 2009.

From: (b) (6)
Sent: Friday, April 22, 2011 2:46 PM
To: (b) (6)
Subject: Michael Baker Jr. Inc. (Baker) Modeling Approach for O1, O2, and O3

(b) (6)

Reference is made to the enclosed Michael Baker Jr. Inc. (Baker) Modeling Approach report (Two-Dimensional Modeling Approach for Evaluating Hydraulic Impacts of Rio Grande Fence Segments O1,O2, and O3) submitted to the United States Section of the International Boundary and Water Commission (USIBWC.)

The purpose for the document was to provide the professional opinion of Michael Baker Jr. Inc. regarding the modeling approach of hydraulic impact thresholds established by the USIBWC using FLO-2D software. Specifically the USIBWC is interested as to how they relate to the DHS fence segments O1, O2, and O3 located in Starr County and Hidalgo County Texas (Roma, Rio Grande City, and Los Ebanos respectively) along the International Border between US and Mexico.

(b) (6) and I have reviewed the referenced report and offer the following comments and suggestions:

1. We suggest that the 12 hr. period of variable inflow be subject to change, depending on model behavior. If the inflow increase of 20,000 cfs per hour causes instability in the computational process, then the period may need to be made longer. If this potential instability does not present itself, then the 12 hr. period would be acceptable.
2. In the Hydraulic Impact Assessment, it is noted that, at the "floodplain cross-sections", we expect calculation of percent flow deflection into the Mexico and the U.S. floodplains and into the main channel.

If you have any questions regarding these comments or suggestions, please feel free to contact me at (b) (6)

Thanks,

(b) (6)

(b) (6)
Civil Engineer
IBWC, U.S. Section
Headquarters

(b) (6)
(b) (6) Fax
(b) (6)

"Excellence through Teamwork"

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MEETING NOTES

Rio Grande O1, O2, O3

Subject: **Discussion of FLO-2D Modeling Assumptions**

Location: US-IBWC Office, El Paso, TX

Date/Time: February 23, 2011

Attendees: (b) (6)

The meeting began with (b) (6) stating the purpose of the meeting, which was to present to US-IBWC and discuss the FLO-2D modeling assumptions as listed in the document 'O1O2O3_2DHydraulApproach4.pdf' that was emailed to all parties a few days prior to the meeting. The two-dimensional modeling of the O1, O2, O3 fence segments would be conducted after receiving US-IBWC feedback and concurrence on the individual assumptions.

(b) (6) was present for the beginning portion of the meeting. (b) (6) was in and out of the meeting as he had another concurrent meeting going on.

(b) (6) led the discussion and went over each of the assumptions in the 5 page document. A summary of the main points that emerged from the discussion is presented below. Figures for O1, O2, O3 showing the 500-foot grid superimposed over an aerial image with the fence alignment were referred to for the discussion.

The latest version of FLO-2D (version 2009.06) would be used for the modeling. A 500-foot grid size would be adopted and the justification for doing so was explained. The inflow hydrograph would be as presented in the document with flows increasing from 0 to 240,000 cfs over a 12-hour period and staying constant for the next 12 hours. It was stated that the modeling would be extended for longer durations beyond the 24-hour period if steady state conditions had not been reached. These points were acceptable to US-IBWC.

Regarding parameters, a floodplain Manning's n value of around 0.07 and a channel n value of around 0.02 to 0.06 were considered acceptable. There was discussion of developed areas in some cells. (b) (6) suggested using a higher n value of 0.04 in these cells and not using the Area Reduction Factor (ARF) feature of FLO-2D.

(b) (6) raised the issue of the major roads typically being elevated and suggested that they acted as levees. (b) (6) pointed out these are not built to levee standards. It was agreed

that they may be considered as non-levee embankments and would be modeled using the levee feature in FLO-2D. (b) (6) suggested using a smaller model if convenient to assess the sensitivity to results of these non-levee embankments. Baker will explore this issue either in a small model or in the main model itself using the levee feature of FLO-2D. It was noted in the discussion that this issue would be more important at locations where the water surface elevation was below the top of the non-levee embankments.

The procedure described to include a limited number of HEC-RAS bank to bank cross-sections and interpolating those to represent a channel according to the FLO-2D manual was considered acceptable.

Inflow grid element representation was considered acceptable. Regarding the outflow grid elements, (b) (6) recommended not including any outflow grid elements in any direction except to the east. He felt that this would help in reaching steady state conditions faster. Baker will include outflow grid elements only along the eastern boundary.

Regarding floodplain cross-sections, US-IBWC recommended using approximately one cross-section every half mile. The issue of whether the floodplain cross-sections should be perpendicular to the predominant flow direction was discussed. US-IBWC suggested rotating the grid so that the longitudinal grid line is aligned along the predominant flow direction (b) (6) questioned whether the outflow from the grid was only in the eastern direction or did it consider releases to the north, northeast, and southeast (b) (6) explained that flow is resolved and output in eight directions. Baker will verify with (b) (6) on whether grid orientation is important for flow calculation.

US-IBWC agreed that the only difference between the existing and proposed condition models would be the proposed fence. US-IBWC also requested that the resulting 2D floodplains be compared to the results from Baker's 1D modeling that used HEC-RAS.

Next, the representation of the fence using the Width Reduction Factor (WRF) feature of FLO-2D was discussed. US-IBWC asked if the fence could be represented as a structure to more accurately represent the energy losses, rather than a blockage by using WRF (b) (6) referred to 2D modeling prepared by (b) (6) for the Upper Rio Grande in New Mexico. He said that he would provide Baker with the FLO-2D model which Baker would identify the modeling approach taken by (b) (6) for modeling gates within the Rio Grande floodplain. (b) (6) said that if there is no other way, then we have to proceed with the WRF method noting that this may be the best that can be done within the limitations of the software. (b) (6) explained the WRF calculation for the bollard fence to (b) (6) and that was acceptable assuming that the WRF procedure ends up being used. (b) (6) suggested that Baker come up with a procedure. This fence modeling procedure needs to be resolved. Baker will contact the software developer (b) (6) to see if there is a better way to model the fence in FLO-2D. (b) (6) said



that while Baker will help collect the required information, (b) (6) must provide the fence modeling methodology.

Baker suggested that a 25% debris blockage at every location appeared to be high. This is reasonable in some locations such as at O3 where a portion of the fence is perpendicular to the flow. At other locations, where the fence follows the main channel, smaller amounts of debris are expected. (b) (6) agreed and recommended using between 10% and 25% debris. (b) (6) asked about the amount of debris seen in the recent flooding at Los Ebanos through which O3 passes. (b) (6) said that staff from other agencies reported significant debris in the vicinity.

The procedure for calculation of hydraulic impacts - comparison of water surface elevation increases for each grid cell and floodplain cross-section flow diversions - were acceptable. (b) (6) asked if it was required to meet the 3-inch and 6-inch criteria in every grid cell, noting there are hundreds of such cells. (b) (6) said that the impacts have to be met for the most part as the Mexico side requires it and that the approval for structures in the Rio Grande floodplain are made by a commission.

Action Items:

- Baker will find out from (b) (6) if there is a more appropriate method than using WRF to represent the fence in FLO-2D.
- Baker will determine whether grid orientation is a factor to determining flow across cross sections.
- US-IBWC provides a copy of the FLO-2D model for Rio Grande developed by (b) (6)
- (b) (6) to research and determines how Fence will be modeled (with Baker input) before any modeling starts.

(b) (6)

From: (b) (6)
Sent: Wednesday, March 02, 2011 4:19 PM
To: (b) (6)
Subject: RE: FLO-2D questions

(b) (6) That's pretty well stated. The bias is eliminated by having the flow go across the diagonals.

(b) (6)

From: (b) (6)
Sent: Wednesday, March 02, 2011 6:05 PM
To: (b) (6)
Subject: RE: FLO-2D questions

So, to confirm, the grid is always formed East-West and North-South in FLO-2D. It is not possible to rotate it at any other angle at the time of creation. And there is no need to rotate because there is no flow bias from the grid system orientation.

Thanks, (b) (6)

(b) (6)

(b) (6) Ph.D., P.E., CFM
Michael Baker Jr., Inc.
2929 North Central Avenue, Suite 800
Phoenix, AZ 85012
Ph: (b) (6)
Cell: (b) (6)
Fax: (b) (6)

From: (b) (6)
Sent: Monday, February 28, 2011 10:07 AM
To: (b) (6)
Subject: RE: FLO-2D questions

(b) (6) You could set up a hydraulic structure to model the fence with a rating curve or table based on the headwater depth.

It should be necessary to orient the grid along the fence line. If you use the WRF values to constrict the flow, then just make sure that the overall fence length matches the sum of the WRF values in the model. In addition you can increase the n-values for the fence elements to slow the flow down through the fence (OR you can use the hydraulic structure rating table as mentioned). Since the flow is shared in 8-directions, it should not be necessary to realign the grid system with the flow direction or fence line. There will be no flow bias because of the grid system orientation.

(b) (6)

From: (b) (6)
Sent: Monday, February 28, 2011 11:56 AM

To: (b) (6)

Subject: FLO-2D questions

Hello (b) (6)

I have the following FLO-2D questions:

Is it possible to model a bollard fence (ex. 6-inch posts with clear spacing in between) using a procedure other than WRF such as using a structure for a better description of head loss?

Is it possible to rotate the grid by a certain angle to orient the longitudinal axis parallel to the main flow? If this is possible and a model has already been set up for the East-North direction, should the model be set up from the start again in order to properly import elevation and other parameters? I could not find this feature. Perhaps a grid rotation feature is not included in the software as the output (MAXQBYDIR.OUT) can be resolved in a desired direction and the transverse direction by multiplying with cosine and sine of the angle.

Thanks

(b) (6)

(b) (6) Ph.D., P.E., CFM

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APPENDIX D

DVD

PF 225 Phase II

**Draft Drainage Report
Fence Segments O1, O2, O3
2-D Hydraulic Analysis of the Rio Grande Floodplain**

DVD Readme file

Aerial Images

AerialO1Jan2011 – Aerial image for fence segment O1.

AerialO2Jan2011 – Aerial image for fence segment O2.

AerialO3Jan2011 – Aerial image for fence segment O3.

FLO-2D Models (Version 2009)

O1

Existing – Existing Condition FLO-2D model and output for Segment O1

Proposed – Proposed Condition FLO-2D model and output for Segment O1

O2

Existing – Existing Condition FLO-2D model and output for Segment O2

Proposed – Proposed Condition FLO-2D model and output for Segment O2

O3

Existing – Existing Condition FLO-2D model and output for Segment O3

Proposed – Proposed Condition FLO-2D model and output for Segment O3

FlowMaster

FlowMaster and rating curves for hydraulic structures representing the proposed fence.

Impact Tables

Table1A.xlsx – Water surface elevations increases for each grid cell for Segment O1

Table1B.xlsx – Percent deflection along each floodplain cross-section for Segment O1

Table2A.xlsx – Water surface elevations increases for each grid cell for Segment O2

Table2B.xlsx – Percent deflection along each floodplain cross-section for Segment O2

Table3A.xlsx – Water surface elevations increases for each grid cell for Segment O3

Table3B.xlsx – Percent deflection along each floodplain cross-section for Segment O3

References

FLO-2D_GridRotation.pdf – email from (b) (6) regarding grid rotation in FLO-2D

Meeting Notes O1O2O3 El Paso Feb 2011c.pdf – Minutes from meeting held at USIBWC office in El Paso to discuss FLO-2D modeling approach

O1O2O3_2DHydraulApproach5d.pdf – FLO-2D modeling approach
